

# **EU Declaration of Conformity**

## HYDROSTOP ELECTRONIC

Szamarzewskiego 78/82 60-569 Poznań POLAND

#### declare under our sole responsibility that following product

Hydrostopper H001ds Automatic cut-off valve

is in conformity with the

Electromagnetic Compatibility Directive (EMC) 2014/30/EU Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU Delagated Directive 2015/863 amending Annex II to Directive 2011/65/EU

and the following harmonised standards and technical specifications have been applied:

EMC: EN 55032:2015

EN 61000-4-2:2009

EN 61000-4-3:2006 + A1:2008 + A2:2010

Place

Signature

Date

Poznań, POLAND

22/10/2019

Szymon Jałowski Homologation Manager



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Place

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Date

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22/10/2019

Szymon Jałowski Homologation Manager

1 March 2023

Dear Customer,

Subject: REACH for Hydrostopper

We would like to inform that all of REACH relevant substances contained in Hydrostopper have been registered in accordance with the REACH Registration requirements. Substances are only moulded during production process.

We attached declaration of compliance certificates of substances used in Hydrostopper for:

- Zytel 70G30HSLRBK099 form DuPont
- LDPE 780E from DOW
- LDPE 410E from DOW
- SYNTHOS HI552M from INEOS Styrolution Group GmbH
- EVA2518 from Sahara International

Yours faithfully

Szymon Jałowski



#### **INEOS Styrolution Group GmbH**

Mainzer Landstraße 50 60325 Frankfurt am Main Germany

ineos-styrolution.com INSTY.emea@ineos.com

#### **REACh Declaration**

Version 1.0

Date: 01 January 2021

Product: Styrolution® PS (GPPS, HIPS) Dear Customer.

This letter is in response to your request regarding the above product line.

The above mentioned product line is compliant with the Regulation EC No. 1907/2006 (REACh) concerning registration obligations.

The vast majority of the components is supplied by European suppliers and therefore has been registered by our suppliers or further up the supply chain.

The components we manufacture or import ourselves requiring registrations (deadlines: 1st December 2010 / 1st June 2013 / 31st May 2018) have been registered by our own or are registered and thus covered by appointed EU Only Representatives (OR) by our non-EU raw material supplier.

INEOS Styrolution will continue its registration obligations and take care that our raw material suppliers will respect their registration obligations.

The safety datasheets for our products have been updated to the REACH Annex II format.

Please note that polymers are exempted from the obligation to register under REACh, therefore a REACh registration No. cannot be provided or an eMSDS for our polymer products.

Regarding regulation EC No. 1272/2008 (CLP) it is our understanding that our products are considered as mixtures and are non-hazardous and as such do not require notification under CLP.

The components, these mixtures are composed of, will be submitted to the CLP inventory, if they fulfil one of the criteria as defined in Article 39 of CLP.

Please note that this declaration is only valid for prime products manufactured within the European Union.

INEOS Styrolution Group GmbH

The information above refers to the state of the laws at the date of issue. This confirmation expires after 12 months or in case of regulatory changes. Please ask for a new confirmation if needed. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. The statement provided is exclusively for our customers and respective competent authorities. It is not intended for publication either in printed or electronic form (e.g. via Internet) by others. Thus, neither partial nor full publication is allowed without written permission.

Phone: +49 69 509550-1200 E-mail: INSTY.info@ineos.com

24 January 2023

Customer Letter 8 articles Status: 17 January 2023

Dear Customer,

**Subject:** Absence of REACH 'Candidate List' Substances in Zytel<sup>®</sup>, except for the grades Zytel<sup>®</sup> ZAM GN1557, Zytel<sup>®</sup> ZAM GN1336 and Zytel<sup>®</sup> ZAM GN1323

We have received a number of material declaration requests from our customers referring to REACH and the potential presence of Substances of Very High Concern (SVHC).

The intent of this letter is to clarify how the Mobility & Materials products are affected by the REACH 'Candidate List'.

The above products fulfil the criteria of being articles in line with REACH article 3(3) and the ECHA guidance on 'Requirements for the substances in articles' as published in May 2008. There are no substances intended to be released from these products as defined by article 7(1) under normal or reasonably foreseeable conditions of use.

Mobility & Materials confirms that the above products do not contain any of the substances listed in the 'Candidate List'\* as last amended on 17<sup>th</sup> January 2023 in a concentration above 0.1% weight by weight (w/w).

Mobility & Materials confirms that we do not add to the above products any of the substances listed on the Annex XIV to Regulation (EC) N° 1907/2006 as last amended on 8<sup>th</sup> April 2022 (Regulation (EU) 2022/586).

We are committed to comply in every respect to the requirements of REACH and relevant amendments. At present, we do not expect any anticipated Substances of Very High Concern to be in our above products requiring reporting to the supply chain.

Should you have any question regarding the content of this letter, or any other REACH related subject, please do not hesitate to contact us.

Yours faithfully,

Dr. Javier Francos

Product stewardship senior analyst

<sup>\*</sup> http://echa.europa.eu/web/guest/candidate-list-table

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This information is based on our current level of knowledge and expresses only our intention. It does not constitute a binding obligation. Whilst the information is provided in good faith, no representations or warranties are made with regards to its completeness or accuracy and no liability will be accepted for damages of any nature whatsoever resulting from the use of or reliance on the information.

As we cannot be aware of all aspects of your business and the impact REACH Regulation may have on your company, we strongly encourage you to get familiar with REACH, its requirements and timelines.

Mobility & Materials has no intention to change its product portfolio of polymer offerings due to the introduction of REACH under the condition, that REACH does not impose commercial or technical burden, which could impact the health of our business. However, since Mobility & Materials depends on its suppliers, Mobility & Materials is not in full control of this decision. Based on industry assessments, it is likely that a certain number of chemicals will no longer be available to the European market. This may necessitate product reformulation, and subsequent product / article re-qualification, or, in more critical cases, to a complete product change.

Status: 17 January 2023

#### 'Candidate List' Substances

**Publication** Press release ECHA/NR/23/02 **Date of inclusion** 17<sup>th</sup> January 2023

Decision Number:

Number of Substances: 9 (total 233)

**Substance Name** 1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]

**EC Number** 253-692-3 **CAS Number** 37853-59-1

**Reason for inclusion** Very persistent and very bioaccumulative (Article 57 e)

**Substance Name** 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol

**EC Number** 201-236-9 **CAS Number** 79-94-7

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name 4,4'-sulphonyldiphenol

**EC Number** 201-250-5 **CAS Number** 80-09-1

**Reason for inclusion** Toxic for reproduction (Article 57 c); Endocrine disrupting properties (Article 57 f –

environment); Endocrine disrupting properties (Article 57 f – human health)

Substance Name Barium diboron tetraoxide

**EC Number** 237-222-4 **CAS Number** 13701-59-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or

combinations thereof

EC Number - CAS Number -

**Reason for inclusion** Very persistent and very bioaccumulative (Article 57 e)

Substance Name Isobutyl 4-hydroxybenzoate

**EC Number** 224-208-8 **CAS Number** 4247-02-3

**Reason for inclusion** Endocrine disrupting properties (Article 57 f – human health)

Substance NameMelamineEC Number203-615-4CAS Number108-78-1

**Reason for inclusion** Equivalent level of concern having probable serious effects to human health (Article 57

f - human health); Equivalent level of concern having probable serious effects to the

environment (Article 57 f - environment)

Substance Name Perfluoroheptanoic acid and its salts

EC Number CAS Number -

**Reason for inclusion** Toxic for reproduction (Article 57 c); Persistent, bioaccumulative and toxic (Article 57

d); Very persistent and very bioaccumulative (Article 57 e); Equivalent level of concern having probable serious effects to human health (Article 57 f – human health); Equivalent level of concern having probable serious effects to the environment (Article 57 f –

environment)

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Substance Name Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-

yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine

**EC Number** 473-390-7

CAS Number -

**Reason for inclusion** Very persistent and very bioaccumulative (Article 57 e)

**Publication** Press release ECHA/NR/22/12 **Date of inclusion** 10<sup>th</sup> June 2022

Decision Number:

Number of Substances: 1 (total 224)

Substance Name N-(hydroxymethyl)acrylamide

**EC Number** 213-103-2 **CAS Number** 924-42-5

**Reason for inclusion** Carcinogenic (Article 57a); Mutagenic (Article 57 b)

**Publication** Press release ECHA/NR/22/01 **Date of inclusion** 17<sup>th</sup> January 2022

Decision Number: -

Number of Substances: 4 (total 223)

**Substance Name** 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol

**EC Number** 204-327-1 **CAS Number** 119-47-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** tris(2-methoxyethoxy)vinylsilane

**EC Number** 213-934-0 **CAS Number** 1067-53-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering

any of the individual isomers and/or combinations thereof (4-MBC)

EC Number CAS Number -

**Reason for inclusion** Endocrine disrupting properties (Article 57f - human health and environment)

Substance Name S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-

(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate

**EC Number** 401-850-9 **CAS Number** 255881-94-8

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

**Publication** Press release ECHA/NR/21/20 **Date of inclusion** 8th July 2021

Decision Number: -

Number of Substances: 8 (total 219)

**Substance Name** 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers

EC Number CAS Number -

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Substance Name Orthoboric acid, sodium salt

EC Number 237-560-2 CAS Number 13840-56-7

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name 2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo

derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-

propanol (2,3-DBPA

**EC Number** 221-967-7; 253-057-0; 202-480-9;

**CAS Number** 3296-90-0; 36483-57-5; 1522-92-5 or 96-13-9

**Reason for inclusion** Carcinogen (Article 57 a)

Substance NameGlutaralEC Number203-856-5CAS Number111-30-8

**Reason for inclusion** Respiratory sensitizing properties (Article 57 f - human health)

Substance Name Medium-chain chlorinated paraffins (MCCP)

(UVCB substances consisting of more than or equal to 80% linear chloroalkanes with

carbon chain lengths within the range from C14 to C17)

EC Number CAS Number -

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

**Substance Name** Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl

chains from oligomerisation, covering any individual isomers and/ or combinations

thereof (PDDP)

EC Number - CAS Number -

**Reason for inclusion** Toxic for reproduction (Article 57 c), Endocrine disrupting properties (Article 57f -

human health and environment)

Substance Name1,4-dioxaneEC Number204-661-8CAS Number123-91-1

**Reason for inclusion** Carcinogenic (Article 57a), Equivalent level of concern having probable serious effects

to the environment (Article 57f - environment), Equivalent level of concern having

probable serious effects to human health (Article 57f – human health)

**Substance Name** 4,4'-(1-methylpropylidene)bisphenol

**EC Number** 201-25-1 **CAS Number** 77-40-7

**Reason for inclusion** Endocrine disrupting properties (Article 57f - human health and environment)

**Publication** Press release ECHA/NR/21/05

**Date of inclusion** 19<sup>th</sup> January 2021

Decision Number: D2020(9139)-DC Number of Substances: 2 (total 211)

Substance Name Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any

other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the

predominant carbon number of the fatty acyloxy moiety

EC Number CAS Number -

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Substance Name Bis(2-(2-methoxyethoxy)ethyl)ether

EC Number 205-594-7 CAS Number 143-24-8

**Reason for inclusion** Toxic for reproduction (Article 57 c)

# **Publication** Press release ECHA/PR/20/052 **Date of inclusion** 25<sup>th</sup> June 2020

Decision Number: D2020(4578)-DC
Number of Substances: 4 (total 209)

Substance Name Dibutylbis(pentane-2,4-dionato-O,O')tin

EC Number 245-152-0 CAS Number 22673-19-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Butyl 4-hydroxybenzoate

EC Number 202-318-7 CAS Number 94-26-8

**Reason for inclusion** Endocrine disrupting properties (Article 57 f)

Substance Name 2-methylimidazole

EC Number 211-765-7 CAS Number 693-98-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name 1-vinylimidazole EC Number 214-012-0 CAS Number 1072-63-5

**Reason for inclusion** Toxic for reproduction (Article 57 c)

## **Publication** Press release ECHA/PR/20/02 **Date of inclusion** 16<sup>th</sup> January 2020

Decision Number: ECHA\_01\_2020 Number of Substances: 4 (total 205)

Substance Name Diisohexyl phthalate

EC Number 276-090-2 CAS Number 71850-09-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone

**EC Number** 404-360-3 **CAS Number** 119313-12-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

**EC Number** 400-600-6 **CAS Number** 71868-10-5

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Perfluorobutane sulfonic acid (PFBS) and its salts

EC Number CAS Number -

**Reason for inclusion** Equivalent level of concern having probable serious effects to environment and human

health (Article 57f)

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**Publication** Press release ECHA/PR/19/12 **Date of inclusion** 16<sup>th</sup> July 2019

Decision Number: ED/71/2019 Number of Substances: 4 (total 201)

Substance Name 2-methoxyethyl acetate

**EC Number** 203-772-9 **CAS Number** 110-49-6

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with >=0.1% w/w of 4-

nonylphenol, branched and linear (4-NP)

EC Number CAS Number -

**Reason for inclusion** Endocrine disrupting properties (Article 57 f)

**Substance Name** 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides

(covering any of their individual isomers and combinations thereof)

EC Number CAS Number -

**Reason for inclusion** Equivalent level of concern having probable serious effects to environment and human

health (Article 57f)

Substance Name 4-tert-butylphenol EC Number 202-679-0 CAS Number 98-54-4

**Reason for inclusion** Endocrine disrupting properties (Article 57 f)

**Publication** Press release ECHA/PR/19/01 **Date of inclusion** 15<sup>th</sup> January 2019

Decision Number: ED/88/2018 Number of Substances: 6 (total 197)

**Substance Name** 2,2-bis(4'-hydroxyphenyl)-4-methylpentane

**EC Number** 401-720-1 **CAS Number** 6807-17-6

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Benzo[k]fluoranthene

EC Number 205-916-6 CAS Number 207-08-9

**Reason for inclusion** Carcinogen (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)

Substance Name Fluoranthene EC Number 205-912-4 CAS Number 206-44-0

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

Substance NamePhenanthreneEC Number201-581-5CAS Number85-01-8

**Reason for inclusion** vPvB (Article 57 e)

Substance NamePyreneEC Number204-927-3CAS Number129-00-0

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

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**Substance Name** 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one

**EC Number** 239-139-9 **CAS Number** 15087-24-8

**Reason for inclusion** Endocrine disrupting properties (Article 57 f)

### **Publication** Press release ECHA/PR/18/11

**Date of inclusion** 

27<sup>th</sup> June 2018

Decision Number: ED/61/2018 Number of Substances: 10 (total 191)

Substance Name Octamethylcyclotetrasiloxane (D4)

**EC Number** 209-136-7 **CAS Number** 556-67-2

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

Substance Name Decamethylcyclopentasiloxane (D5)

**EC Number** 208-764-9 **CAS Number** 541-02-6

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

Substance Name Dodecamethylcyclohexasiloxane (D6)

**EC Number** 208-762-8 **CAS Number** 540-97-6

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

Substance Name Lead EC Number 231-100-4 CAS Number 7439-92-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Disodium octaborate

**EC Number** 234-541-0 **CAS Number** 12008-41-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Benzo[ghi]perylene

**EC Number** 205-883-8 **CAS Number** 191-24-2

**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

Substance Name Terphenyl hydrogenated

EC Number 262-967-7 CAS Number 61788-32-7 Reason for inclusion vPvB (Article 57 e)

Substance Name Ethylenediamine (EDA)

EC Number 203-468-6 CAS Number 107-15-3

**Reason for inclusion** Respiratory sensitizing properties (Article 57 f - human health)

**Substance Name** Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)

**EC Number** 209-008-0 **CAS Number** 552-30-7

**Reason for inclusion** Respiratory sensitizing properties (Article 57 f - human health)

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Substance Name Dicyclohexyl phthalate (DCHP)

**EC Number** 201-545-9 **CAS Number** 84-61-7

**Reason for inclusion** Toxic for reproduction (Article 57 c), Endocrine disrupting properties ((Article 57 f

human health)

**Publication** Press release ECHA/PR/18/01 **Date of inclusion** 15<sup>th</sup> January 2018

Decision Number: ED/01/2018 Number of Substances: 8 (total 181)

**Substance Name** 4,4'-isopropylidenediphenol (bisphenol A; BPA)

**EC Number** 201-245-8 **CAS Number** 80-05-7

**Reason for inclusion** Endocrine disrupting properties (Article 57 f)

Substance NameChryseneEC Number205-923-4CAS Number218-01-9

**Reason for inclusion** Carcinogenic (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)

Substance Name
EC Number
CAS Number
Benz[a]anthracene
200-280-6
56-55-3

Reason for inclusion Carcinogenic (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)

Substance Name
Cadmium nitrate
EC Number
CAS Number
10325-94-7

**Reason for inclusion** Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity

after repeated exposure (Article 57 f)

Substance NameCadmium hydroxideEC Number244-168-5CAS Number21041-95-2

**Reason for inclusion** Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity

after repeated exposure (Article 57 f)

Substance Name Cadmium carbonate

**EC Number** 208-168-9 **CAS Number** 513-78-0

Reason for inclusion Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity

after repeated exposure (Article 57 f)

**Substance Name** 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.1<sup>69</sup>.0<sup>2,13</sup>.0<sup>5,10</sup>]octadeca-

7,15-diene ("Dechlorane Plus" [covering any of its individual anti- and syn-isomers

or any combination thereof]

EC Number - CAS Number -

**Reason for inclusion** vPvB (Article 57 e)

**Substance Name** Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-

heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched

and linear

EC Number CAS Number -

**Reason for inclusion** Endocrine disrupting properties (Article 57 f)

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**Publication** Press release ECHA/PR/17/14

**Date of inclusion** 07<sup>th</sup> July 2017

Decision Number: ED/30/2017 Number of Substances: 1 (total 174)

Substance Name Perfluorohexane-1-sulphonic acid and its salts

EC Number - CAS Number -

**Reason for inclusion** vPvB (Article 57 e)

**Publication** Press release ECHA/PR/17/02 **Date of inclusion** 12<sup>th</sup> January 2017

Decision Number: ED/01/2017 Number of Substances: 4 (total 173)

**Substance Name** 4,4'-isopropylidenediphenol

**EC Number** 201-245-8 **CAS Number** 80-05-7

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts

**EC Number** 206-400-3, -, 221-470-5

**CAS Number** 335-76-2, 3830-45-3, 3108-42-7

**Reason for inclusion** Toxic for reproduction (Article 57 c), PBT (Article 57 d)

**Substance Name** *p-*(1,1-dimethylpropyl)phenol

**EC Number** 201-280-9 **CAS Number** 80-46-6

**Reason for inclusion** Equivalent level of concern having probable serious effects to environment (Article 57f)

Substance Name 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain

with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual

isomers or a combination thereof]

EC Number CAS Number -

**Reason for inclusion** Equivalent level of concern having probable serious effects to environment (Article 57f)

**Publication** Press release ECHA/PR/16/07

**Date of inclusion** 20<sup>th</sup> June 2016

Decision Number: ED/21/2016 Number of Substances: 1 (total 169)

Substance Name Benzo[def]chrysene

**EC Number** 200-028-5 **CAS Number** 50-32-8

Reason for inclusion Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Toxic for reproduction (Article

57 c), PBT (Article 57 d), vPvB (Article 57 e)

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**Publication** Press release ECHA/PR/15/18 17<sup>th</sup> December 2015 Date of inclusion

ED/79/2015 Decision Number: 5 (total 168) Number of Substances:

**Substance Name** Nitrobenzene **EC Number** 202-716-0 **CAS Number** 98-95-3

Reason for inclusion Toxic for reproduction (Article 57 c)

**Substance Name** 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)

EC Number 223-383-8 CAS Number 3864-99-1 Reason for inclusion

vPvB (Article 57 e)

Sunset date 27 November 2023 (regulation (EU)2020/171 of 6th February 2020)

**Substance Name** 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)

**EC Number** 253-037-1 **CAS Number** 36437-37-3 Reason for inclusion vPvB (Article 57 e)

27 November 2023 (regulation (EU)2020/171 of 6th February 2020) Sunset date

**Substance Name** 1,3-propanesultone EC Number 214-317-9

**CAS Number** 1120-71-4

Reason for inclusion Carcinogenic (Article 57 a)

**Substance Name** Perfluorononan-1-oic-acid and its sodium and ammonium salts

**EC Number** 206-801-3

**CAS Number** 375-95-1, 21049-39-8, 4149-60-4

Reason for inclusion Toxic for reproduction (Article 57 c), PBT (Article 57 d)

#### **Publication** Press release ECHA/PR/15/09 15<sup>th</sup> June 2015 **Date of inclusion**

ED/39/2015 Decision Number: Number of Substances: 2 (total 165)

**Substance Name** 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid,

mixed decyl and hexyl and octyl diesters with  $\geq 0.3\%$  of dihexyl phthalate

EC Number 271-094-0, 272-013-1, 201-559-5

**CAS Number** 68515-51-5, 68648-93-1

Reason for inclusion Toxic for reproduction (Article 57 c)

27 February 2023 (regulation (EU)2020/171 of 6th February 2020) Sunset date

5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-**Substance Name** 

2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the

individual stereoisomers of [1] and [2] or any combination thereof]

EC Number CAS Number

Reason for inclusion vPvB (Article 57 e)

27 May 2023 (regulation (EU)2020/171 of 6th February 2020) Sunset date

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**Publication** Press release ECHA/PR/14/18 **Date of inclusion** 17<sup>th</sup> December 2014

Decision Number: ED/108/2014 Number of Substances: 6 (total 163)

**Substance Name** Bis (2-ethylhexyl)phthalate (DEHP)

**EC Number** 204-211-0 **CAS Number** 117-81-7

**Reason for inclusion** Equivalent level of concern having probable serious effects to the environment Article

57 f); Toxic for reproduction (article 57c)

<u>Sunset date</u> 21 February 2015 (Règlement (EU) No 143/2011 of 17 February 2011)

Substance Name 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)

**EC Number** 223-346-6 **CAS Number** 3846-71-7

**Reason for inclusion** PBT (Article 57 d); vPvB (Article 57 e)

Sunset date 27 November 2023 (regulation (EU)2020/171 of 6th February 2020)

Substance Name 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate

(DOTE)

**EC Number** 239-622-4 **CAS Number** 15571-58-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-

stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-

 $oxoethyl] thio] \hbox{-}4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannate tradecan oate (reaction \ mass \ of$ 

DOTE and MOTE)

EC Number - CAS Number -

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)

**EC Number** 247-384-8 **CAS Number** 25973-55-1

**Reason for inclusion** PBT (Article 57 d); vPvB (Article 57 e)

Sunset date 27 November 2023 (regulation (EU)2020/171 of 6<sup>th</sup> February 2020)

Substance Name Cadmium fluoride EC Number 232-222-0 CAS Number 7790-79-6

**Reason for inclusion** Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article

57 c); Equivalent level of concern having probable serious effects to human health

(Article 57 f)

Substance Name Cadmium sulphate

**EC Number** 233-331-6

**CAS Number** 10124-36-4, 31119-53-6

**Reason for inclusion** Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article

57 c); Equivalent level of concern having probable serious effects to human health

(Article 57 f)

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**Publication** Press release ECHA/PR/14/11

**Date of inclusion** 16<sup>th</sup> June 2014

Decision Number: ED/49/2014 Number of Substances: 4 (total 157)

Substance Name Cadmium chloride EC Number 233-296-7 CAS Number 10108-64-2

**Reason for inclusion** Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article

57c); Equivalent level of concern having probable serious effects to human health

(Article 57 f)

Substance Name 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear

**EC Number** 271-093-5 **CAS Number** 68515-50-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Sunset date 27 February 2023 (regulation (EU)2020/171 of 6th February 2020)

Substance Name Sodium peroxometaborate

**EC Number** 231-556-4 **CAS Number** 7632-04-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Sunset date 27 May 2023 (regulation (EU)2020/171 of 6th February 2020)

Substance Name Sodium perborate; perboric acid, sodium salt

EC Number 239-172-9: 234-390-0

CAS Number

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Sunset date 27 May 2023 (regulation (EU)2020/171 of 6<sup>th</sup> February 2020)

# **Publication** Press release ECHA/PR/13/40

**Date of inclusion** 16<sup>th</sup> December 2013

Decision Number: ED/121/2013 Number of Substances: 7 (total 153)

Substance Name Cadmium sulphide EC Number 215-147-8 CAS Number 1306-23-6

**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to

human health (Article 57 f)

Substance Name Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-

6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)

**EC Number** 217-710-3 **CAS Number** 1937-37-7

**Reason for inclusion** Carcinogenic (Article 57a)

Substance Name
EC Number
CAS Number
Dihexyl phthalate
201-559-5
84-75-3

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Sunset date 27 February 2023 (regulation (EU)2020/171 of 6<sup>th</sup> February 2020)

**Substance Name** Imidazolidine-2-thione; (2-imidazoline-2-thiol)

**EC Number** 202-506-9 **CAS Number** 96-45-7

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Substance Name

EC Number

CAS Number

Trixylyl phosphate
246-677-8
25155-23-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Sunset date 27 May 2023 (regulation (EU)2020/171 of 6<sup>th</sup> February 2020)

Substance Name Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)

(C.I. Direct Red 28)

EC Number 209-358-4 CAS Number 573-58-0

**Reason for inclusion** Carcinogenic (Article 57a)

Substance Name Lead di(acetate)
EC Number 206-104-4
CAS Number 301-04-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

# **Publication** Press release ECHA/PR/13/26 **Date of inclusion** 20<sup>th</sup> June 2013

Decision Number ED/69/2013 Number of Substances: 6 (total 146)

Substance Name Cadmium EC Number 231-152-8 CAS Number 7440-43-9

**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to

human health (Article 57 f)

Substance Name Ammonium pentadecafluorooctanoate (APFO)

EC Number 223-320-4 CAS Number 3825-26-1

**Reason for inclusion** Toxic for reproduction (Article 57 c); PBT (Article 57 d)

Substance Name Pentadecafluorooctanoic acid (PFOA)

**EC Number** 206-397-9 **CAS Number** 335-67-1

**Reason for inclusion** Toxic for reproduction (Article 57 c); PBT (Article 57 d)

Substance Name Dipentyl phthalate (DPP)

**EC Number** 205-017-9 **CAS Number** 131-18-0

**Reason for inclusion** Toxic for reproduction (Article 57 c)

<u>Sunset date</u> 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or

branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues,

which include any of the individual isomers and/or combinations thereof]

EC Number CAS Number -

Reason for inclusion Equivalent level of concern having probable serious effects to the environment

(Article 57 f)

Sunset date 4 January 2021 (Regulation (EU) No 999/2017 of 13 June 2017)

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Substance NameCadmium oxideEC Number215-146-2CAS Number1306-19-0

**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to

human health (Article 57 f)

Substance NameCadmium sulphideEC Number215-147-8CAS Number1306-23-6

**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to

human health (Article 57 f)

# **Publication** Press release ECHA/PR/12/39 **Date of inclusion** 19<sup>th</sup> December 2012

Decision Number ED/169/2012 Number of Substances: 54 (total 140)

Substance Name Pyrochlore, antimony lead yellow

EC Number 232-382-1 CAS Number 8012-00-8

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 6-methoxy-m-toluidine (p-cresidine)

**EC Number** 204-419-1 **CAS Number** 120-71-8

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name Henicosafluoroundecanoic acid

EC Number 218-165-4 CAS Number 2058-94-8 Reason for inclusion vPvB (Article 57 e)

**Substance Name** Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2],

Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]

**EC Number** 247-094-1; 243-072-0; 256-356-4; 260-566-1 **CAS Number** 25550-51-0; 19438-60-9; 48122-14-1; 57110-29-9

**Reason for inclusion** Equivalent level of concern having probable serious effects to human health (Article 57 f)

Substance Name Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride

[2], transcyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and transisomers [1] are

covered by this entry]

**EC Number** 201-604-9; 236-086-3; 238-009-9 **CAS Number** 85-42-7; 13149-00-3; 14166-21-3

**Reason for inclusion** Equivalent level of concern having probable serious effects to human health (Article 57 f)

Substance Name Dibutyltin dichloride (DBTC)

**EC Number** 211-670-0 **CAS Number** 683-18-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Lead bis(tetrafluoroborate)

EC Number 237-486-0 CAS Number 13814-96-5

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Substance NameLead dinitrateEC Number233-245-9CAS Number10099-74-8

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Silicic acid, lead salt

EC Number 234-363-3 CAS Number 11120-22-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name 4-Aminoazobenzene

**EC Number** 200-453-6 **CAS Number** 60-09-3

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name Lead titanium zirconium oxide

**EC Number** 235-727-4 **CAS Number** 12626-81-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Lead monoxide (lead oxide)

**EC Number** 215-267-0 **CAS Number** 1317-36-8

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name o-Toluidine EC Number 202-429-0 CAS Number 95-53-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine

**EC Number** 421-150-7 **CAS Number** 143860-04-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb)

content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]

**EC Number** 272-271-5 **CAS Number** 68784-75-8

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Trilead bis(carbonate)dihydroxide

**EC Number** 215-290-6 **CAS Number** 1319-46-6

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Furan EC Number 203-727-3 CAS Number 110-00-9

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name N,N-dimethylformamide

EC Number 200-679-5 CAS Number 68-12-2

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**Substance Name** 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and

UVCB substances, polymers and homologues]

EC Number - CAS Number -

**Reason for inclusion** Equivalent level of concern having probable serious effects to human health (Article 57 f)

<u>Sunset date</u> 4 January 2021 (Regulation (EU) No 999/2017 of 13 June 2017)

Substance Name 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain

with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a

combination thereof]

EC Number - CAS Number -

**Reason for inclusion** Equivalent level of concern having probable serious effects to human health (Article 57 f)

**Substance Name** 4,4'-methylenedi-o-toluidine

**EC Number** 212-658-8 **CAS Number** 838-88-0

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name Diethyl sulphate EC Number 200-589-6 CAS Number 64-67-5

**Reason for inclusion** Carcinogenic (Article 57 a); Mutagenic (Article 57 b)

Substance NameDimethyl sulphateEC Number201-058-1CAS Number77-78-1

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance NameLead oxide sulfateEC Number234-853-7CAS Number12036-76-9

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Lead titanium trioxide

EC Number 235-038-9 CAS Number 12060-00-3

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Acetic acid, lead salt, basic

**EC Number** 257-175-3 **CAS Number** 51404-69-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name [Phthalato(2-)]dioxotrilead

**EC Number** 273-688-5 **CAS Number** 69011-06-9

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)

**EC Number** 214-604-9 **CAS Number** 1163-19-5

**Reason for inclusion** PBT (Article 57 d); vPvB (Article 57 e)

Substance Name N-methylacetamide

EC Number 201-182-6 CAS Number 79-16-3

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Substance Name Dinoseb (6-sec-butyl-2,4-dinitrophenol)

**EC Number** 201-861-7 **CAS Number** 88-85-7

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 1,2-Diethoxyethane

**EC Number** 211-076-1 **CAS Number** 629-14-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Tetralead trioxide sulphate

EC Number 235-380-9 CAS Number 12202-17-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name N-pentyl-isopentylphthalate

EC Number

**CAS Number** 776297-69-9

**Reason for inclusion** Toxic for reproduction (Article 57 c)

<u>Sunset date</u> 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

Substance Name Dioxobis(stearato)trilead

EC Number 235-702-8 CAS Number 12578-12-0

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Tetraethyllead EC Number 201-075-4 CAS Number 78-00-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Pentalead tetraoxide sulphate

**EC Number** 235-067-7 **CAS Number** 12065-90-6

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Pentacosafluorotridecanoic acid

EC Number 276-745-2 CAS Number 72629-94-8 Reason for inclusion vPvB (Article 57 e)

Substance Name Tricosafluorododecanoic acid

**EC Number** 206-203-2 **CAS Number** 307-55-1

**Reason for inclusion** vPvB (Article 57 e)

Substance Name Heptacosafluorotetradecanoic acid

EC Number 206-803-4 CAS Number 376-06-7

**Reason for inclusion** vPvB (Article 57 e)

Substance Name 1-bromopropane (n-propyl bromide)

**EC Number** 203-445-0 **CAS Number** 106-94-5

**Reason for inclusion** Toxic for reproduction (Article 57 c)

<u>Sunset date</u> 4 July 2017 (Regulation (EU) No 999/2017 of 13 June 2017)

Substance Name Methoxyacetic acid

EC Number 210-894-6 CAS Number 625-45-6

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**Substance Name** 4-methyl-m-phenylenediamine (toluene-2,4-diamine)

**EC Number** 202-453-1 **CAS Number** 95-80-7

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name Methyloxirane (Propylene oxide)

**EC Number** 200-879-2 **CAS Number** 75-56-9

**Reason for inclusion** Carcinogenic (Article 57 a); Mutagenic (Article 57 b)

Substance Name Trilead dioxide phosphonate

**EC Number** 235-252-2 **CAS Number** 12141-20-7

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name o-aminoazotoluene

**EC Number** 202-591-2 **CAS Number** 97-56-3

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear

**EC Number** 284-032-2 **CAS Number** 84777-06-0

**Reason for inclusion** Toxic for reproduction (Article 57 c)

<u>Sunset date</u> 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** 4,4'-oxydianiline and its salts

EC Number 202-977-0 CAS Number 101-80-4

**Reason for inclusion** Carcinogenic (Article 57 a); Mutagenic (Article 57 b)

Substance Name Orange lead (lead tetroxide)

**EC Number** 215-235-6 **CAS Number** 1314-41-6

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Biphenyl-4-ylamine

**EC Number** 202-177-1 **CAS Number** 92-67-1

**Reason for inclusion** Carcinogenic (Article 57 a)

Substance Name Diisopentylphthalate

**EC Number** 210-088-4 **CAS Number** 605-50-5

**Reason for inclusion** Toxic for reproduction (Article 57 c)

<u>Sunset date</u> 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** Fatty acids, C16-18, lead salts

EC Number 292-966-7 CAS Number 91031-62-8

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))

**EC Number** 204-650-8 **CAS Number** 123-77-3

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Sulfurous acid, lead salt, dibasic

**EC Number** 263-467-1 **CAS Number** 62229-08-7

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Substance Name Lead cyanamidate EC Number 244-073-9 CAS Number 20837-86-9

**Reason for inclusion** Carcinogenic (Article 57 a)

**Publication** Press release ECHA/PR/12/16

**Date of inclusion** 18th June 2012

**Decision Number** ED/87/2012 Number of Substances: 13 (total 86)

**Substance Name** 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)

**EC Number** 203-977-3 **CAS Number** 112-49-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)

**EC Number** 203-794-9 **CAS Number** 110-71-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Diboron trioxide EC Number 215-125-8 CAS Number 1303-86-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance NameFormamideEC Number200-842-0CAS Number75-12-7

**Reason for inclusion** Toxic for reproduction (Article 57 c)

Substance Name Lead(II) bis(methanesulfonate)

**EC Number** 401-750-5 **CAS Number** 17570-76-2

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)

EC Number 219-514-3 CAS Number 2451-62-9

**Reason for inclusion** Mutagenic (Article 57 b)

**Substance Name** 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)

**EC Number** 423-400-0 **CAS Number** 59653-74-6

**Reason for inclusion** Mutagenic (Article 57 b)

**Substance Name** 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)

**EC Number** 202-027-5 **CAS Number** 90-94-8

**Reason for inclusion** Carcinogenic (Article 57 a)

**Substance Name** N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)

EC Number 202-959-2 CAS Number 101-61-1

**Reason for inclusion** Carcinogenic (Article 57 a)

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Substance Name [4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-

ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's

ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]

**EC Number** 219-943-6 **CAS Number** 2580-56-5

**Reason for inclusion** Carcinogenic (Article 57 a)

**Substance Name** [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-

ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with  $\geq 0.1\%$  of Michler's

ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]

**EC Number** 208-953-6 **CAS Number** 548-62-9

Reason for inclusion Carcinogenic (Article 57 a)

**Substance Name** 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol [with  $\geq 0.1\%$  of Michler's ketone

(EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]

**EC Number** 209-218-2 **CAS Number** 561-41-1

**Reason for inclusion** Carcinogenic (Article 57 a)

**Substance Name** α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent

Blue 4) [with  $\geq$  0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No.

202-959-2)]

**EC Number** 229-851-8 **CAS Number** 6786-83-0

**Reason for inclusion** Carcinogenic (Article 57 a)

# **Publication** Press release ECHA/PR/11/26

**Date of inclusion** 19<sup>th</sup> December 2011

**Decision Number** ED/77/2011

Number of Substances: 20

#### Substance Name Zirconia Aluminosilicate Refractory Ceramic Fibres

are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight

EC Number CAS Number -

**Reason for inclusion** Carcinogenic (article 57 a)

Substance Name Calcium arsenate EC Number 231-904-5 CAS Number 7778-44-1

**Reason for inclusion** Carcinogenic (article 57 a)

**Substance Name** Bis(2-methoxyethyl) ether

**EC Number** 203-924-4 **CAS Number** 111-96-6

**Reason for inclusion** Toxic for reproduction (article 57 c)

Sunset date 22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)

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Substance Name Aluminosilicate Refractory Ceramic Fibres

are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight

EC Number CAS Number -

**Reason for inclusion** Carcinogenic (article 57 a)

Substance Name Potassium hydroxyoctaoxodizincatedichromate

**EC Number** 234-329-8 **CAS Number** 11103-86-9

**Reason for inclusion** Carcinogenic (article 57 a)

Sunset date 22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)

Substance Name Lead dipicrate EC Number 229-335-2 CAS Number 6477-64-1

**Reason for inclusion** Toxic for reproduction (article 57 c)

Substance Name N,N-dimethylacetamide

**EC Number** 204-826-4 **CAS Number** 127-19-5

**Reason for inclusion** Toxic for reproduction (article 57 c)

Substance NameArsenic acidEC Number231-901-9CAS Number7778-39-4

**Reason for inclusion** Carcinogenic (article 57 a)

<u>Sunset date</u> 22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)

**Substance Name** 2-Methoxyaniline; o-Anisidine

**EC Number** 201-963-1 **CAS Number** 90-04-0

**Reason for inclusion** Carcinogenic (article 57 a)

Substance NameTrilead diarsenateEC Number222-979-5CAS Number3687-31-8

**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

Substance Name 1,2-dichloroethane

**EC Number** 203-458-1 **CAS Number** 107-06-2

**Reason for inclusion** Carcinogenic (article 57 a)

Sunset date 22 November 2017 (Regulation (EU) No 895/2014 of 14 August 2014

Substance Name Pentazinc chromate octahydroxide

EC Number 256-418-0 CAS Number 49663-84-5

**Reason for inclusion** Carcinogenic (article 57 a)

<u>Sunset date</u> 22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)

**Substance Name** 4-(1,1,3,3-tetramethylbutyl)phenol

**EC Number** 205-426-2 **CAS Number** 140-66-9

**Reason for inclusion** Equivalent level of concern having probable serious effects to the environment(article

57f)

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**Substance Name** Formaldehyde, oligomeric reaction products with aniline

**EC Number** 500-036-1 **CAS Number** 25214-70-4

**Reason for inclusion** Carcinogenic (article 57 a)

Sunset date 22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)

**Substance Name** Bis(2-methoxyethyl) phthalate

**EC Number** 204-212-6 **CAS Number** 117-82-8

**Reason for inclusion** Toxic for reproduction (article 57 c)

Sunset date 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

Substance Name Lead diazide, Lead azide

EC Number 236-542-1 CAS Number 13424-46-9

**Reason for inclusion** Toxic for reproduction (article 57 c)

Substance Name
EC Number
CAS Number
Lead styphnate
239-290-0
15245-44-0

**Reason for inclusion** Toxic for reproduction (article 57 c)

**Substance Name** 2,2'-dichloro-4,4'-methylenedianiline

**EC Number** 202-918-9 **CAS Number** 101-14-4

**Reason for inclusion** Carcinogenic (article 57 a)

<u>Sunset date</u> 22 November 2017 (Regulation (EU) No 895/2014 of 14 August 2014)

Substance Name Phenolphthalein EC Number 201-004-7 CAS Number 77-09-8

**Reason for inclusion** Carcinogenic (article 57 a)

Substance Name Dichromium tris(chromate)

**EC Number** 246-356-2 **CAS Number** 24613-89-6

**Reason for inclusion** Carcinogenic (article 57 a)

Sunset date 22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)

# **Publication** Press release ECHA/PR/11/15

**Date of inclusion** 20<sup>th</sup> June 2011

**Decision number** ED/31/2011

Number of Substances: 7

**Substance Name** Cobalt dichloride (update of entry from 28<sup>th</sup> October 2008)

**EC Number** 231-589-4 **CAS Number** 7646-79-9

**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Decision number** ED/31/2011 / ED/67/2008

**Substance Name** 1,2,3-Trichloropropane

EC Number 202-486-1 CAS Number 96-18-4

**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

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**Substance Name** 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters

**EC Number** 271-084-6 **CAS Number** 68515-42-4

Reason for inclusion Toxic for reproduction (article 57 c)

Sunset date 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

Substance Name 1-Methyl-2-pyrrolidone

EC Number 212-828-1 872-50-4 CAS Number

Reason for inclusion Toxic for reproduction (article 57 c)

**Substance Name** Hydrazine EC Number 206-114-9

CAS Number 302-01-2, 7803-57-8 Reason for inclusion Carcinogenic (article 57 a)

**Substance Name** Strontium chromate

**EC Number** 232-142-6 **CAS Number** 7789-06-2

Reason for inclusion Carcinogenic (article 57 a)

Sunset date 22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)

**Substance Name** 2-Ethoxyethyl acetate

**EC Number** 203-839-2 **CAS Number** 111-15-9

Reason for inclusion Toxic for reproduction (article 57 c)

**Substance Name** 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich

**EC Number** 276-158-1 71888-89-6 **CAS Number** 

Reason for inclusion Toxic for reproduction (article 57 c)

4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017) Sunset date

#### **Publication** Press release ECHA/PR/10/26

**Date of inclusion** 15<sup>th</sup> December 2010 ED/95/2010

Number of Substances:

**Decision number** 

**Substance Name** Acids generated from chromium trioxide and their oligomers. Group containing: Chromic

acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid

**EC Number** 231-801-5, 236-881-5 **CAS Number** 7738-94-5, 13530-68-2 Reason for inclusion Carcinogenic (article 57 a)

Sunset date 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Cobalt(II) carbonate

EC Number 208-169-4 CAS Number 513-79-1

Carcinogenic and toxic for reproduction (articles 57 a and 57 c) Reason for inclusion

**Substance Name** Cobalt(II) diacetate

**EC Number** 200-755-8 **CAS Number** 

Reason for inclusion Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

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**Substance Name** 2-Methoxyethanol

203-713-7 **EC Number CAS Number** 109-86-4

Reason for inclusion Toxic for reproduction (article 57c)

**Substance Name** Chromium trioxide

EC Number 215-607-8 **CAS Number** 1333-82-0

Reason for inclusion Carcinogenic and mutagenic (articles 57 a and 57 b)

Sunset date 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

Cobalt(II) dinitrate **Substance Name** EC Number 233-402-1 CAS Number 10141-05-6

Reason for inclusion Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

Substance Name Cobalt(II) sulphate EC Number 233-334-2 **CAS Number** 10124-43-3

Reason for inclusion Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Substance Name** 2-Ethoxyethanol EC Number 203-804-1 CAS Number 110-80-5

Reason for inclusion Toxic for reproduction (article 57c)

#### **Publication** Press release ECHA/PR/10/12

**Date of inclusion** 18<sup>th</sup> June 2010

Decision number ED/30/2010

Number of Substances:

**Substance Name** Disodium tetraborate, anhydrous

EC Number 215-540-4

CAS Number 1303-96-4, 1330-43-4, 12179-04-3 Reason for inclusion Toxic for reproduction (article 57c)

**Substance Name** Tetraboron disodium heptaoxide, hydrate

EC Number 235-541-3 CAS Number 12267-73-1

Reason for inclusion Toxic for reproduction (article 57c)

**Substance Name** Potassium dichromate

**EC Number** 231-906-6 7778-50-9 **CAS Number** 

Reason for inclusion Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)

21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013) Sunset date

Substance Name Ammonium dichromate

EC Number 232-143-1 **CAS Number** 7789-09-5

Reason for inclusion Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)

21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013) Sunset date

**Substance Name** Trichloroethylene **EC Number** 201-167-4 **CAS Number** 79-01-6

Reason for inclusion Carcinogenic (article 57 a)

21 April 2016 (Regulation (EU) No 348/2013 of 17 April 2013) Sunset date

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Substance NameSodium chromateEC Number231-889-5CAS Number7775-11-3

**Reason for inclusion** Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)

Sunset date 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

Substance Name Potassium chromate

**EC Number** 232-140-5 **CAS Number** 7789-00-6

**Reason for inclusion** Carcinogenic and mutagenic (articles 57 a and 57 b)

Sunset date 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

Substance Name Boric acid

EC Number 233-139-2, 234-343-4 CAS Number 10043-35-3, 11113-50-1

**Reason for inclusion** Toxic for reproduction (article 57 c)

### **Publication** Press release ECHA/PR/10/05

**Date of inclusion** 30<sup>th</sup> March 2010

**Decision number** ED/68/2009

Number of Substances: 1

Substance NameAcrylamideEC Number201-173-7CAS Number79-06-1

**Reason for inclusion** Carcinogenic and mutagenic (articles 57 a and 57 b)

### **Publication** Press release ECHA/PR/10/01

**Date of inclusion** 13<sup>th</sup> January 2010

**Decision number** ED/68/2009

Number of Substances: 14

Substance Name Lead chromate molybdate sulphate red (C.I. Pigment Red 104)

EC Number 235-759-9 CAS Number 12656-85-8

**Reason for inclusion**Carcinogenic and toxic for reproduction (articles 57 a and 57 c) **Sunset date**Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

Substance NameLead chromateEC Number231-846-0CAS Number7758-97-6

**Reason for inclusion**Carcinogenic and toxic for reproduction (articles 57 a and 57 c) **Sunset date**Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

Substance Name Anthracene oil, anthracene-low

EC Number 292-604-8 CAS Number 90640-82-7

**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

Substance Name2,4-DinitrotolueneEC Number204-450-0CAS Number121-14-2

**Reason for inclusion** Carcinogenic (article 57a)

Sunset date 21 August 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

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Substance Name Tris(2-chloroethyl)phosphate

**EC Number** 204-118-5 **CAS Number** 115-96-8

**Reason for inclusion** Toxic for reproduction (article 57c)

Sunset date 21 August 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Anthracene oil, anthracene paste, anthracene fraction

**EC Number** 295-275-9 **CAS Number** 91995-15-2

**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

Substance NameAnthracene oilEC Number292-602-7CAS Number90640-80-5

Reason for inclusion
Sunset date

Carcinogenic<sup>1</sup>, PBT and vPvB (articles 57a, 57d and 57e)
4 October 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

#### Substance Name Aluminosilicate Refractory Ceramic Fibres

are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al2O3 and SiO2 are present within the following concentration ranges: Al2O3: 43.5 – 47 % w/w, and SiO2: 49.5 – 53.5 % w/w, or Al2O3: 45.5 – 50.5 % w/w, and SiO2: 48.5 – 54 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (um).

EC Number Extracted from Index no.: 650-017-00-8

CAS Number -

**Reason for inclusion** Carcinogenic (article 57a)

#### Substance Name Zirconia Aluminosilicate Refractory Ceramic Fibres

are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al2O3, SiO2 and ZrO2 are present within the following concentration ranges: Al2O3: 35 – 36 % w/w, and SiO2: 47.5 – 50 % w/w, and ZrO2: 15 - 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).

EC Number Extracted from Index no. 650-017-00-8

CAS Number -

**Reason for inclusion** Carcinogenic (article 57a)

Substance Name Pitch, coal tar, high temp.

EC Number 266-028-2 CAS Number 65996-93-2

Reason for inclusion
Sunset date

Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
4 October 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

Substance Name Lead sulfochromate yellow (C.I. Pigment Yellow 34)

**EC Number** 215-693-7 **CAS Number** 1344-37-2

**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c) **Sunset date** 21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

Substance Name Anthracene oil, anthracene paste, distn. lights

**EC Number** 295-278-5 **CAS Number** 91995-17-4

**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

Substance Name Diisobutyl phthalate (DIBP)

**EC Number** 201-553-2 **CAS Number** 84-69-5

**Reason for inclusion** Toxic for reproduction (article 57c)

Sunset date 21 February 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

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**Substance Name** Anthracene oil, anthracene paste

**EC Number** 292-603-2 **CAS Number** 90640-81-6

**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

**Publication** Press release ECHA/PR/08/38

**Date of inclusion** 28<sup>th</sup> October 2008

**Decision number** ED/67/2008

Number of Substances: 15

**Substance Name** Cobalt dichloride (updated 20<sup>th</sup> June 2011)

EC Number 231-589-4 CAS Number 7646-79-9

**Reason for inclusion** Carcinogenic (article 57a)

Substance Name Sodium dichromate

**EC Number** 234-190-3

**CAS Number** 7789-12-0, 10588-01-9

**Reason for inclusion** Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)

Sunset date 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)

**EC Number** 201-329-4 **CAS Number** 81-15-2

**Reason for inclusion** vPvB (article 57e)

Sunset date 21 August 2014 (Regulation (EU) No 143/2011 of 17 February 2011)

**Substance Name** 4,4'- Diaminodiphenylmethane (MDA)

EC Number 202-974-4 CAS Number 101-77-9

**Reason for inclusion** Carcinogenic (article 57a)

<u>Sunset date</u> 21 August 2014 (Regulation (EU) No 143/2011 of 17 February 2011)

Substance Name Bis(tributyltin)oxide (TBTO)

EC Number 200-268-0 CAS Number 56-35-9

**Reason for inclusion** PBT (article 57d)

Substance NameTriethyl arsenateEC Number427-700-2CAS Number15606-95-8

**Reason for inclusion** Carcinogenic (article 57a)

Substance Name Dibutyl phthalate (DBP)

**EC Number** 201-557-4 **CAS Number** 84-74-2

**Reason for inclusion** Toxic for reproduction (article 57c)

Sunset date 21 February 2015 (Regulation (EU) No 143/2011 of 17 February 2011)

Substance Name
EC Number
CAS Number
Diarsenic trioxide
215-481-4
1327-53-3

**Reason for inclusion** Carcinogenic (article 57a)

<u>Sunset date</u> 21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

Substance NameAnthraceneEC Number204-371-1CAS Number120-12-7Reason for inclusionPBT (article 57d)

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**Substance Name** Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)

EC Number 287-476-5 CAS Number 85535-84-8

**Reason for inclusion** PBT and vPvB (articles 57 d and 57 e)

Substance Name Lead hydrogen arsenate

EC Number 232-064-2 CAS Number 7784-40-9

**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

Substance Name Benzyl butyl phthalate (BBP)

**EC Number** 201-622-7 **CAS Number** 85-68-7

**Reason for inclusion** Toxic for reproduction (article 57c)

Sunset date 21 February 2015 (Regulation (EU) No 143/2011 of 17 February 2011)

Substance Name Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-

hexabromocyclododecane Beta-hexabromocyclododecane Gamma-

hexabromocyclododecane

**EC Number** 247-148-4 and 221-695-9

**CAS Number** 25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)

**Reason for inclusion** PBT (article 57d)

Sunset date 21 August 2015 (Regulation (EU) No 143/2011 of 17 February 2011)

Substance Name Diarsenic pentaoxide

**EC Number** 215-116-9 **CAS Number** 1303-28-2

**Reason for inclusion** Carcinogenic (article 57a)

<u>Sunset date</u> 21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Bis (2-ethylhexyl)phthalate (DEHP)

**EC Number** 204-211-0 **CAS Number** 117-81-7

**Reason for inclusion** Toxic for reproduction (article 57c)

Sunset date 21 February 2015 (Regulation (EU) No 143/2011 of 17 February 2011)

.....

**EC number, CAS number:** the EC number includes both anhydrous and hydrated forms of a substance and consequently the entries cover both these forms. The CAS number included may be for the anhydrous form only, and therefore the CAS number shown does not always describe the entry accurately.

**IUCLID 5 Substance Dataset:** these are partly pre-filled substance data sets in IUCLID 5.3 format. They are provided as a support for importers or producers of articles preparing notifications for substances in articles. The notifying company remains, however, solely responsible for the appropriateness and correctness of the information submitted in the notification.

- 1) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5)
- 2) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5) and less than 0.1 % w/w benzene (EINECS No 200-753-7).]
- 3) The substance does not meet the criteria for identification as a mutagen in situations where it contains less than 0,1 % w/w benzene (EINECS No 200-753-7).]

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(شركة مساهمة سعودية)

Sahara International Petrochemical Company (Saudi Joint Stock Company)



# **DECLARATION OF COMPLIANCE CERTIFICATE**

Ethylene Vinyl Acetate Copolymers (EVA) / CAS 24937-78-8



#### **ABSTRACT**

This Declaration of Compliance Certificate is owned by the Compliance and Product Stewardship Department which covers the EU Regulation / Directive, US FDA and other legislation related to health, safety, and environment concerns.

Mustafa Fatani

Prepared By

Dr. Richard Tomanek

Approved By

SAHARA INTERNATIONAL PETROCHEMICAL CO.

**APPROVED** 

Compliance & Product Stewardship Dept.

Updated in Jan 2023

(شركة مساهمة سعودية)

Sahara International Petrochemical Company (Saudi Joint Stock Company)

#### **Declaration of Compliance Certificate**

To Whom It May Concern,

Sahara International Petrochemical Company (SIPCHEM) declares that Ethylene Vinyl Acetate Copolymers product is manufactured and formulated in accordance with the compositional requirements to meet and comply with the following list of regulations.

Note: Food compliance are applicable to: (EVA 2518 CO, EVA 0818 LO, EVA 2014 CO)

Sipchem hereby confirms that will notify and declare about the following changes to the manufacturing process that could affect the quality, safety & efficacy of the product supplied, prior to implementation. (Change of manufacturing site / major changes to the manufacturing facility, Change of Equipment, Major changes in the manufacturing process or synthetic route, Changes to the specification or method of analysis and Change of Packaging, Storage Packaging conditions).

#### Note:

Contact complianceps@sipchem.com for more information



(شركة مساهمة سعودية)

Sahara International Petrochemical Company (Saudi Joint Stock Company)

#### REACH

• Vinyl Acetate Monomer (VAM) REACH reg. no.: 01-2119471301-50-0182. Above mentioned raw material is used in EVA manufacturing and registered for REACH. EVA product is free from the restricted substances under REACH Annex XVII list. Therefore, EVA product is exempted from the provision on registration on title of REACH (Article 2 (9)).

#### Food Contact EU

EVA product complies with the following regulation list:

- Framework Regulation (EC) 1935/2004. Ref.Link
- Commission Regulation (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food. Ref.Link
- Commission Regulation (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food. Ref.Link
- Commission Directive 2008/60/EC of 17 June 2008 (Laying down specific purity criteria concerning sweeteners for use in foodstuffs). Ref.Link
- According to EU Regulation no. 10/2011, Dual Use Additive are additives which are authorized for the manufacture of plastic materials and articles and at the same time authorized as food additive or flavoring substances. Therefore, additives in EVA product is considered safe to manufacture plastic materials and articles intended to come into contact with food. Ref.Link

Specific Migration Limit of (Ethylene Monomer CAS 74-85-1, Vinyl Acetate Monomer CAS 108-05-4, Propylene CAS 115-07-1 & Phenolic Antioxidant CAS 2082-79-3) are (60, 12, 60 & 6) ppm respectively.

#### **US FDA**

EVA product complies with FDA regulation 21 CFR 177.1350 Subpart B (INDIRECT FOOD ADDITIVES: POLYMERS - Substances for Use as Basic Components of Single and Repeated Use Food Contact Surfaces) <u>Ref.Link</u>

EVA also satisfies requirements for all Food Types and Conditions of Use A-H as described in Tables 1 and 2, respectively, found on the FDA website at: Ref.Link



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#### Food Contact - China

EVA product complies with the Chinese Standards GB9685-2016, GB4806.1-2016 and GB4806.6-20161. where Vinyl Acetate Monomer SML is 12 ppm.

#### **Halal Certificate**

EVA product is manufactured in a standard industrial process without the use of any animal derived additives nor Non-Halal chemicals. Therefore, we confirm that our EVA product can be considered as compliant with Halal principles.

#### **SVHC**

Chemicals listed in the Substances of Very High Concern list (SVHC) are not intentionally added during the manufacturing process of EVA.

Latest update by ECHA January 17, 2023. Ref.

### California Proposition 65

EVA product complies with California Proposition 65 (updated on February 25, 2022). The product represents 'no significant risk' for cancer to the people of California. The product contains no substances known to the State of California to cause reproductive toxicity at a level of exposure subject to the requirements of Propositions 65. Ref.Link

#### **Shelf Life**

The maximum allowable recommended shelf life for EVA is 6 years when stored at ambient conditions recommended in the SDS:

- Store in a cool, dry place with temperature below 75° F
- Keep away from direct heat or open flames.
- Avoid contact with solvents or other fluids.
- Do not store in direct sunlight.
- Keep products wrapped or sealed to minimize the absorption of moisture.
- Store in a relaxed condition free from tension, compression or other deformation.

See Safety Data Sheet <u>Here</u>.

#### Mercosur

(Argentina, Brazil, Uruguay, Paraguay, Venezuela and Bolivia)

EVA product meets the requirements of following regulations: Ref.Link

- GMC Resolution No. 03/1992 of April 1st, 1992, which "establishes the general criteria and classification of materials for packaging and equipment in contact with food".



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- GMC Resolution No. 02/2012 of April 19th, 2012 which provides a "positive list of monomers, other starting substances and polymers authorized for the manufacture of plastic packaging and equipment that come into contact with food".
- GMC Resolution No. 32/2007 of December 11th, 2007 which provides a "positive list of additives for plastic materials intended for packaging and equipment manufacturing for contact with foods.

#### **RoHS**

EVA product complies with the Restriction of Hazardous Substances Directive where none of the following substance are intentionally added to the process. (Cadmium, Lead, Mercury, Hexavalent Chromium, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers, Bis(2ethylhexyl) phthalate, Butyl benzyl phthalate, Dibutyl phthalate & Diisobutyl phthalate) as per Directive (EU) 2015/863. Ref.Link

#### TSE/BSE

EVA product is free of Transmissible Spongiform Encephalopathy and Bovine Spongiform Encephalopathy where no animal, animal products, veterinary vaccines or animal pathogens are added in the process nor in contact with packaging, storing nor transportation as per Commission Directive 2003/32/EC. Ref.Link

#### **Phthalates**

Phthalates are not used as additives or raw materials in the manufacture of EVA product as per Directive 2005/84/EC, Commission Decision 1999/815/EC. Ref.Link

#### **Toys**

EVA product meets the relevant requirements of Directive 2009/48/EC (replaced 88/378/EEC (Toy Safety)) Ref.Link

#### VOC

EVA product complies with the Volatile Organic Content legislation, it is not considered to be volatile organic compounds (VOC), nor does it contain a VOC as per Directive 2004/42/EC. Ref.Link

#### **ODC**

EVA Product complies with regulation EC no. 2037/200 Ozone Depleting Substance (ODC) where none of the following materials are intentionally used in EVA manufacturing

· C.R. 2055007570

س.ت .۷۵۷.۰۵۰.

P.O. Box 12021 | Jubail Industrial City 31961 | Kingdom of Saudi Arabia

• ص.ب ١٢٠٢١ | مدينة الجبيل الصناعية ١٣٩٦١ | المملكة العربية السعودية

• T +966 13 359 9999 | F +966 13 359 9610

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(chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, hydrobromofluorocarbons). Ref.Link

#### WEEE

Directive 2002/96/EC on waste electrical and electronic equipment ("WEEE Directive") is regulating the recovery and disposal of waste electrical and electronics equipment. Therefore, compliance with this directive has to be confirmed by the manufacturer of the final parts. Ref.Link

#### **CONEG (Heavy Metals)**

EVA product meets the requirement of Coalition of Northeastern Governors and Directive 94/62/EC. Where heavy metals (Cadmium, Lead, Mercury) are not intentionally added to the process. Ref.Link

#### **IKEA Specifications**

EVA product meets the requirement of:

- IOS-MAT-0010
- IOS-MAT-0054
- IOS-MAT-0205
- IOS-MAT-0103

#### **GADSL**

EVA product is not in the Global Automotive Declarable Substance List.

#### Directive 2006/122/EC

EVA product complies with Directive 2006/122/EC where none of the following substances are present:

Perfluorinated compounds (PFC), Perfluorinated tenside (PFT), Perfluorooctanoic acid PFOA) & Perfluorooctane sulfonate (PFOS). <u>Ref.Link</u>

#### **TNPP & TNPE**

EVA product complies with Directive 2003/53/EC where it is free of Nonylphenol and its derivatives including Tris(nonylphenyl) Phosphite (TNPP) and Tris(nonylphenyl) ethoxylates (TNPE). Ref.Link



## شركة الصحراء العالمية للبتروكيماويات

(شركة مساهمة سعودية)

Sahara International Petrochemical Company (Saudi Joint Stock Company)

#### **PAH**

EVA product complies with Directive no. 208/2005 which Polycyclic Aromatic Hydrocarbons substances are added in the manufacturing. Ref.Link

#### **Dodd-Frank Act**

EVA product is free of Conflict Minerals (Tin, Tantalum, Tungsten, and Gold) which are also known as 3TG.

#### **CMR Substances**

EVA product complies with Directives no. 67/548/EEC and 76/769/EEC which (Carcinogens, Mutagens and toxic for reproduction) are not intentionally added into the process. Ref.Link

#### **GMO**

Genetic Modified Organisms and recombinant DNA technology are not present in EVA product process.

#### **POP**

EVA product complies with Persistent Organic Pollutants Regulation (EU) 2019/1021. Where it is safe to the environment and human health. Ref.Link

#### Oeko Tex Standard 100

EVA product complies with Oeko Tex Standard 100. where it is safe for human use and free of more than 100 substances known to be harmful chemicals to human health.

#### **European Resolution AP (92)**

EVA product complies with European Resolution AP (92) regarding migration limits of known polymerization additives.

#### **ZDHC MRSL**

EVA product can be used by the group of apparel and footwear brands and retailers who are leading industries towards Zero Discharge of Hazardous Chemicals to minimize the impact on humans and environment. Therefore, substances in Manufacturing Restricted Substances List are not intentionally added to EVA product.



Sahara International Petrochemical Company (Saudi Joint Stock Company)

#### **CLP Regulation**

EVA product complies with the Regulation (EC) No. 1272/2008 for Classification, Labeling and Packaging. Which aligns with EU legislation to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

#### **Nitrosamine Free**

Sipchem confirms that there is no possibility of Nitrosamine impurities (listed below) from the input material reaction chemistry (refer Annexure-II for starting material Route of synthesis) as well as from the manufacturing process of EVA.

Nitrosamine Impurities:

- N-nitrosodimethylamine (NDMA)
- N-nitrosodiethylamine (NDEA)
- N-nitroso-N-methyl-4-aminobutyric acid (NMBA)
- N-nitrosodiisopropylamine (NDIPA)
- N-nitroso-ethylisopropylamine (NEIPA)
- N-nitrosodibutylamine (NDBA)

#### **Global Chemical Inventories**

EVA product is listed in the following Global Chemical Inventories:

- US TSCA Inventory
- EU EINECS/ELINCS/NLP
- Inventory of Existing Chemical Substances in China (IECSC)
- Japan Inventory of Existing and Notified Substances (ENCS)
- Japan ISHL Existing Substances List (ISHL)
- Korea Existing Chemicals List (KECL)
- Taiwan Chemical Substance Inventory (TCSI)
- Australian Inventory of Chemical Substances (AICS)
- Canada Domestic Substances List (DSL) and Non-Domestic Substances List (NDSL)
- New Zealand Inventory of Chemicals (NZIoC)
- Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- Thailand Hazardous Substances List
- Malaysia Chemical Information Management System (CIMS)

#### **Japanese Positive List Compliance**

EVA complies with the Japanese Ministry of Health, Labor & Welfare (MHLW) Positive List system of Notification No. 370 (Substances for use in food contact materials)

• C.R. 2055007570

• س.ت .۷۵۷، ۲.۵۵۰۰

P.O. Box 12021 | Jubail Industrial City 31961 | Kingdom of Saudi Arabia

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· Capital: SR 7,333,333,320

، رأس المال ،۷،۳۳۳،۳۳۳،۳۲ ريال سعودي



Sahara International Petrochemical Company (Saudi Joint Stock Company)

#### **cGMP**

Sipchem declare that the manufacturing processes are compliant with the general principles of Current Good Manufacturing Practice. In particular, Sipchem has implemented procedures covering the following elements of GMP:

- Quality Assurance Systems and policies.
- Management Leadership and dedicated Resources.
- Documentation, Labelling and classifications.
- Raw material specifications and acceptance.
- Contamination prevention.
- Management of Change.
- Dedicated Storage, Packaging, Warehousing and Transportation.
- Quality Control and specifications for finished products.
- Compliant handling, product recall, and incident management.
- Regular internal and supplier audits.

Moreover, Sipchem is certified for the following international standards: Website Link

- 1) Quality Management System (ISO 9001:2015)
- 2) Occupational Health and Safety Management System (ISO 45001:2018)
- 3) Environmental Management System (ISO 14001)
- 4) Responsible Care (RC 14001)
- 5) Information Security Management System (ISO/IEC 27001:2013)
- 6) Energy Management System (ISO 50001:2018)
- 7) Asset Management System (ISO 55001:2014)

#### **Swiss Ordinance (SR 817.023.21)**

EVA product complies with the regulation made by Swiss Federal Department of Home Affairs (FDHA) where it is safe for the use of all applications related to printing inks for non-food contact surfaces of food contact materials.

#### Antioxidant

Irganox 1076

CAS 2082-79-3

Supplier Name (BASF)

Function (To protect and maintain polymers properties during the process)

• C.R. 2055007570

س.ت ۷۵۷،۰۵۰،۲

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· Capital: SR 7,333,333,320



Sahara International Petrochemical Company (Saudi Joint Stock Company)

#### **PFAS**

PFAS (Perfluoroalkyl and Polyfluoroalkyl) and all its types including PFOA (perfluorooctanoic acid) and PFOS (perfluorooctanoic sulfonic acid) are not intentionally added to the process of EVA product.

#### **Absence of Substances and Chemicals**

None of the following substances are used as additives or raw materials in the manufacture of EVA. However, since we do not systematically perform specific tests to verify the absence of these substances, we cannot guarantee that there is no trace amount of these substances, as impurity or otherwise, in EVA.

- Acrylamide.
- Alkylphenol Ethoxylates (APEOs).
- Allergens (as defined in Regulation (EU) No 1169/2011, as amended).
- Aromatic amines.
- Asbestos.
- Azodicarbonamide or semi-carbazide compounds.
- Benzophenone, hydroxybenzophenone and 4-methyl benzophenone.
- Biocides.
- Bisphenol-A (BPA), Bisphenol-F (BPF) and Bisphenol-S (BPS).
- Brominated flame retardants.
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC).
- Chlorinated Paraffins.
- Conflict minerals:
- Columbite-tantalite (Coltan, Niobium, Tantalum).
- Cassiterite (Tin).
- Wolframite (Tungsten).
- Gold.
- Decabromodiphenylether (decaBDE).
- 2-Ethylhexanoic Acid (2-EHA).
- Di(ethylhexyl) adipate (DEHA) and di(ethylhexyl) maleate (DEHM).
- Dimethyl Fumarate (DMF).
- Dioxins and furans.
- Endocrine Disruptors listed in the Japanese authority list "Strategic Programs on Environmental, Endocrine Disruptors '98 (SPEED '98) Table-3: Chemicals Suspected of Having Endocrine Disrupting Effects".



## شِرِكة الصحراء العالمية للبتروكيماويات

(شركة مساهمة سعودية)

Sahara International Petrochemical Company (Saudi Joint Stock Company)

- Epoxy derivatives:
- BADGE [2,2-bis(4-hydroxyphenyl) propane bis(2,3-epoxypropyl) ether],
- BFDGE [bis(hydroxyphenyl)methane bis(2,3-epoxypropyl) ether],
- NOGE [novolac glycidyl ether] as defined in Directive 2002/16/EC amended by 2004/13/EC, repealed by the Regulation 1895/2005/EC.
- Epoxidised Soya Bean Oil (ESBO).
- Formaldehyde (formol).
- (Heavy) metals: Antimony, Arsenic, Beryllium, Cadmium, Cobalt, Copper, Hexavalent Chromium, Lead, Mercury, Nickel, Selenium, Titanium.
- Isopropylthioxanthone (ITX).
- Latexes and elastomers.
- Melamine and cyanuric acid.
- Mercapto mix.
- N-ethyl-o,p-toluolsulfonamide (NETSA) (CAS nb 1077-66-1).
- N-ethyl-p-toluenesulphonamide (NE-PTSA) (CAS nb 80-39-7).
- Nonylphenol and its derivatives including Tris(nonylphenyl) Phosphite (TNPP).
- Nanomaterials.
- Organo-tin compounds.
- Pentabromodiphenyl ether, octabromodiphenyl ether.
- Perfluorinated compounds (PFC), Perfluorinated tenside (PFT), Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS) listed in Directive 2006/122/EC.
- Poly (aromatic hydrocarbons) according to US Environmental Protection Agency Method 610 (EPA 610).
- Polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), polybrominated terphenyls (PBTs).
- Polychlorinated biphenyls (PCBs), polychlorinated terphenyls (PCTs), polychlorinated naphthalenes (PCNs).
- Polycyclic Aromatic Hydrocarbons (PAH).
- Recycled products as defined by Regulation (EC) 282/2008.
- Short-chain chlorinated paraffins.
- Silicone.
- Tert-butyl-4-hydroxyanisole (BHA) and 2,6-di-tert-butyl-p-cresol (BHT).
- Thiuram mix.
- Titanium Acetyl Acetone (TAA).
- Triclosan (2,4,4'-trichloro-2'-hydroxydiphenyl ether) (CAS no. 3380-34-5).
- Vinyl chloride monomer (VCM) and its polymers or copolymers (PVC, PVDC, ...).

• C.R. 2055007570

• س.ت ۷۵۷، ۲،۵۵۰،۲۵۷

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## شركة الصحراء العالمية للبتروكيماويات

(شركة مساهمة سعودية)

Sahara International Petrochemical Company (Saudi Joint Stock Company)

- 2,4-Pentanedione
- Antthraquinone
- Benzene
- Chlorobenzenes
- DEAB (4,4'-Bis(diethylamino)benzophenone)
- Ethylbenzene
- Ethyleneimine (=aziridine)
- Glycol ethers of E-list and their acetates and beta-isomers of glycol ethers of P-list and their acetates
- Hydroquinone
- Linear Alkylbenzenes (defined as benzene with a linear alkyl C10-13 chain)
- Rhodamine-based pigments
- Sulfonamide type plasticisers (e.g. NETSA)
- Toluene
- 1 ethylpyrrolidin-2-one (NEP)
- Azo colorants
- 4-methylbenzophenone
- Chlorine compounds
- (MOSH & MOAH) / (POSH & PAO)
- Hexadecyltrimethoxysilane
- Pentachlorophenol
- Phenol, isopropylated phosphate (3:1) (PIP (3:1))
- 2,4,6-Tris(tert-butyl) phenol (2,4,6-TTBP)
- Hexachlorobutadiene (HCBD)
- Pentachlorothiophenol (PCTP)
- Titanium Dioxide.
- Vanadium.
- Bromine.
- Chlorine.
- Fluorine.
- Iodine.
- Dibutyltin dilaurate (DBTDL)
- Epoxy silanes
- Mineral oil aromatic hydrocarbons
- Mineral oil not listed in 10/2011
- Neopentyl Glycol (NPG)

· C.R. 2055007570

٠س.ت .٧٥٧، ٥٥٠٦

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· Capital: SR 7,333,333,320

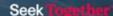


## شركة الصحراء العالمية للبتروكيماويات

(شركة مساهمة سعودية)

Sahara International Petrochemical Company (Saudi Joint Stock Company)

- Phthalates as technical support agent
- Propoxylated bisphenol
- Tin based catalyst
- Processing aids and or Teflon waxes





#### **RESINEX**

Moerenstraat 85A 2370 Arendonk Belgium

Dear Customer,

#### This reply refers to:

- Substances of Very High Concern listed in Annex XIV of Regulation (EC) n. 1907/2006 as amended
- Substances of Very High Concern listed in the Official Candidate List of ECHA (Vers. 17th January 2023)

In relation to the above, Dow informs you that <u>none of these substances is intentionally added or</u> present at or above the reporting threshold limits in the following products:

DOW™ LDPE 410 E

DOWLEX™ NG 5056G Polyethylene Resin

AFFINITY™ PL 1880G Polyolefin Plastomer

ELVAX™ 3175LGA Ethylene Vinyl Acetate Copolymer

Dow kindly reminds you that for information on the components of our products and their concentration, you can refer to the Safety Data Sheet (SDS). Any Carcinogenic, Mutagenic and Reprotoxic (Category 1A and 1B), Persistent Bioaccumulable and Toxic (PBT) and Very Persistent and Very Bioaccumulative (vPvB) constituent at or above 0,1% (by weight) or lower reporting threshold will appear in Section 3 of the SDS as required. If you are not sure that you are in possession of the latest version of a European Safety Data Sheet for the product(s) of interest to you, please contact the Dow Customer Information Group to request it.

Please note that it is your responsibility to abide by any clause of this, or other regulations, that may apply to the specific use you make of our product.

-----

Concerning the presence of substances listed in REACH Annex XVII (1907/2006/EC and subsequent related amendments) in the products:

DOW ™LDPE 410 E

DOWLEX™ NG 5056G Polyethylene Resin

AFFINITY™ PL 1880G Polyolefin Plastomer

ELVAX™ 3175LGA Ethylene Vinyl Acetate Copolymer

We advise as follows.

Where any of the substances disclosed in the composition section of the product's European Safety

Data Sheets (EU SDSs) are subject to restrictions in the framework of REACH (i.e. listed in Annex XVII), these substances will be indicated in section 15 – Regulatory Information – of the product's EU SDSs in a sub-section dedicated to restrictions.

For each impacted substance, its identity will be disclosed, along with numbers of all REACH Annex XVII restrictions it is subject to.

Please note that in this sub-section of the EU SDSs the actual text of the restriction(s) from Annex XVII will not be disclosed. Therefore, customers are strongly advised to consider the information provided in the EU SDSs as well as the specific conditions of restriction(s) as laid down in REACH Annex XVII entries in order to determine any resulting impact on their end use application. European format Safety Data Sheets, if available, can be obtained from <a href="https://www.dow.com/en-us/support/sds-finder.html">https://www.dow.com/en-us/support/sds-finder.html</a>

Where no information on REACH restrictions is provided in Section 15 of the product's EU SDSs, this means the product does not contain substances subject to Annex XVII restrictions in concentrations equal to or greater than the concentrations that require disclosure of such substances in the EU SDS composition section pursuant to REACH Annex II.

Please note that it is generally the responsibility of the customer/end-user to confirm compliance of Dow products with the end use related restrictions in Annex XVII.

\_\_\_.

As of the date of this document, Dow (\*) hereby confirms that the following product manufactured at one of our EU based plants or purchased from a European Dow legal entity is in compliance with the registration requirements of Regulation (EC) n. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals (REACH):

DOW™ LDPE 410 E

DOWLEX™ NG 5056G Polyethylene Resin

AFFINITY™ PL 1880G Polyolefin Plastomer

ELVAX™ 3175LGA Ethylene Vinyl Acetate Copolymer

Therefore, Dow confirms that all the REACH relevant substances contained in the above product have been registered in accordance with the REACH Registration requirements, either by Dow or Dow's upstream suppliers, or are exempt from Registration and you can be considered as a Downstream User under REACH.

Should you need additional information, please do not hesitate to contact us.

Dow Customer Information Group

Tel: +31 115 67 2626 Fax: +31 115 67 4704

www.dow.com/assistance/dowcig.htm

Candidate List: https://echa.europa.eu/candidate-list-table | Authorization List: https://echa.europa.eu/authorisation-list

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#### RESINEX

Moerenstraat 85A 2370 Arendonk Belgium

Dear Customer,

#### This reply refers to:

- Substances of Very High Concern listed in Annex XIV of Regulation (EC) n. 1907/2006 as amended
- Substances of Very High Concern listed in the Official Candidate List of ECHA (Vers. 17th January 2023)

In relation to the above, Dow informs you that <u>none of these substances is intentionally added or present</u> at or above the reporting threshold limits in the following product:

#### DOW™ LDPE 780E

Dow kindly reminds you that for information on the components of our products and their concentration, you can refer to the Safety Data Sheet (SDS). Any Carcinogenic, Mutagenic and Reprotoxic (Category 1A and 1B), Persistent Bioaccumulable and Toxic (PBT) and Very Persistent and Very Bioaccumulative (vPvB) constituent at or above 0,1% (by weight) or lower reporting threshold will appear in Section 3 of the SDS as required. If you are not sure that you are in possession of the latest version of a European Safety Data Sheet for the product(s) of interest to you, please contact the Dow Customer Information Group to request it.

Please note that it is your responsibility to abide by any clause of this, or other regulations, that may apply to the specific use you make of our product.

\_\_\_\_\_

Concerning the presence of substances listed in REACH Annex XVII (1907/2006/EC and subsequent related amendments) in the product:

#### DOW™ LDPE 780E

We advise as follows.

Where any of the substances disclosed in the composition section of the product's European Safety Data Sheets (EU SDSs) are subject to restrictions in the framework of REACH (i.e. listed in Annex XVII), these substances will be indicated in section 15 – Regulatory Information – of the product's EU SDSs in a sub-section dedicated to restrictions.

For each impacted substance, its identity will be disclosed, along with numbers of all REACH Annex XVII restrictions it is subject to.

Please note that in this sub-section of the EU SDSs the actual text of the restriction(s) from Annex XVII

will not be disclosed. Therefore, customers are strongly advised to consider the information provided in the EU SDSs as well as the specific conditions of restriction(s) as laid down in REACH Annex XVII entries in order to determine any resulting impact on their end use application. European format Safety Data Sheets, if available, can be obtained from <a href="https://www.dow.com/en-us/support/sds-finder.html">https://www.dow.com/en-us/support/sds-finder.html</a>

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Please note that it is generally the responsibility of the customer/end-user to confirm compliance of Dow products with the end use related restrictions in Annex XVII.

----

As of the date of this document, Dow (\*) hereby confirms that the following product manufactured at one of our EU based plants or purchased from a European Dow legal entity is in compliance with the registration requirements of Regulation (EC) n. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals (REACH):

#### DOW™ LDPE 780E

Therefore, Dow confirms that all the REACH relevant substances contained in the above product have been registered in accordance with the REACH Registration requirements, either by Dow or Dow's upstream suppliers, or are exempt from Registration and you can be considered as a Downstream User under REACH.

Should you need additional information, please do not hesitate to contact us.

Dow Customer Information Group Tel: +31 115 67 2626 Fax: +31 115 67 4704

www.dow.com/assistance/dowcig.htm

Candidate List: <a href="https://echa.europa.eu/candidate-list-table">https://echa.europa.eu/candidate-list-table</a> | Authorization List:

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Approval Number: 1705512 Test Report: MAT/LAB 265M



Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,

NP11 4EG

25<sup>th</sup> May 2017

DuPont (UK) Ltd 4th Floor, Kings Court, London Road, Stevenage, Hertfordshire SG1 2NG

# WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS) <u>MATERIAL APPROVAL</u>

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

NYLON - MATERIAL ONLY. 5180

Zytel® 70G30HSLR BK099. Black coloured, injection moulded nylon. For use with water up to 85°C.

**APPROVAL NUMBER: 1705512** 

APPROVAL HOLDER: DUPONT (UK) LTD

The Scheme reserves the right to review approval.

Approval 1705512 is valid between May 2017 and May 2022

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

Jason Furnival Approvals & Enquiries Manager

Water Regulations Advisory Scheme

#### WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.** 

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that; 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

#### Use of the WRAS Approved Material Logo

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

#### **Modifications to existing Approvals**

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

#### Re-Approval

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.



# **DuPont Performance Polymers**

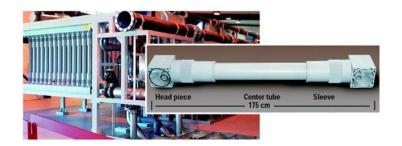
# DuPont Performance Polymers: Potable Water Regulatory Information

# Performance polymers for potable water applications:

DuPont has been providing resins for use in a variety of potable water applications. Depending on the industry needs, resins are available from our Zytel® PA and PPA polyamide, Crastin® PBT, Rynite® PET and Hytrel® TPC-ET polyester and Delrin® acetal product lines.

These resins meet the requirements of various regulatory standards including Food Contact compliance (FG grades) as well as suitability for contact with potable water according to NSF 61, WRAS, ACS, KTW and W270 standards. The table on the next page provides the detailed information on the regulatory status for the specific resins.

These resins have been used in product applications including pumps, filtration components, sanitary, in-line heaters, fixtures and tanks. Please contact your DuPont representative for further information







Agency/Standard	WRAS	ACS	KTW	W270	NSF61
Country	UK	France	Germany	Germany	US
Regulatory process for customer PARTS:					
Resin Approval Required for Parts Approval	No	No	No	No	No
DuPont can disclose Resin Composition to	Yes	Yes	Yes	Yes	Yes
Agency to Support Customer Parts submittal					
Regulatory process for RESINS: DuPont Submis	sion of molded plates/pla	ques to the Agencies for te	esting		
Food Contact Suitability Required:					
EU: 10/2011	No	Yes	Yes	Yes	N/A
US: FDA	N/A	N/A	N/A	N/A	No
Approval duration	5Yr	5Yr	5Yr	5Yr	1Yr
Resin listing in the public domain	Yes	yes (updated every 2Y)	No	No	Yes
Agency Link	http://www.wras.co.uk/ <u>Directory/</u>	www.sante.gouv.fr	N/A	N/A	http://info.nsf.org/Certified/Pws Components/Listings.asp?Com pany=14800&Standard=061

## DuPont Performance Polymers: Regulatory Information for Potable Water

Polymer	Glass Fiber	Family/Grade	Color	FDA	EU10/2011	NS	F61 (US)		WRAS	S (UK)	ACS (France)	DVGW
	%					23°C	82°C		23℃	85℃	23-85 ℃	KTW 23°0
PBT		Crastin® S600F10	Natural					1 1				
PBT		Crastin®FGS600F10	Natural					1				
PBT	30	Crastin® SK605	Natural					1 1				
POM		Delrin® FG100	Natural					1				
POM		Delrin® FG150	Natural									
POM		Delrin®FG511DP	Natural					1				
POM		Delrin®500P	Natural									
POM		Delrin®500P	BK602									
POM		Delrin®100P	Natural									
POM		Delrin®100P	BK602					]				
POM		Delrin®150	Natural									
POM	20	Delrin®570	Natural									
POM		Delrin®900P	Natural									
POM		Delrin®900P	BK602									
TPC-ET		Hytrel® HTR6108	Natural									
TPC-ET		Hytrel® 4068FG	Natural									
TPC-ET		Hytrel® 6359FG	Natural									
PET	30	Rynite® 530	Natural									
PET	45	Rynite® 545	Natural									
PA66		Zytel® FG42A	Natural									
PA66		Zytel® FG101L	Natural									
PA66	33	Zytel® FGFE5171	Natural									
PA66	30	Zytel® FG70G30HSLR	Natural					] [				
PA66	30	Zytel® 70G30 HSLR	BK099					] [				
PA66	30	Zytel® FG70G30HSR2	BK309					] [				
PA66	30	Zytel® FG70G30HSR3	BK309					] [				
PA6.12	33	Zytel® FG77G33L	Natural									
PA6.12	33	FE 5448	Natural									
PPA	35	Zytel® HTN FG52G35HSLR	BK011					] [				
PPA	60	Zytel® HTN 53G60LRHF	BK083									

### For more information on DuPont Performance Polymers:

#### USA

DuPont Performance Polymers Chestnut Run Plaza, 713 974 Centre Rd, P.O. Box 2915 Wilmington, Delaware, 19805 Tel: 302-999-4592

Toll free (USA) 1 800-441-0575 web-inquiries.ddf@dupont.com

#### **SOUTH AMERICA**

DuPont do Brasil S.A. Als Itapecuru, 506 Alphaville 06454-080 Barueri-Sao Paulo Tel: +5511 7266 8229

#### EUROPE/MIDDLE EAST/ AFRICA

DuPont International Operations Sárl 2, chemin du Pavillon CH-1218 Le Grand-Saconnex/Geneva

Tel: +41 22 717 51 11

**ASIA PACIFIC** 

DuPont China Ltd. 26/F, Tomer 6, The Gateway Tsimshatsui, Kowloon, Hong Kong

Tel: +852 2734 5345 Fax: +852 2722 7446

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GNE-A11118-00-A0713 (10/13)

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# CERTIFICATE





## POLSKIE CENTRUM BADAŃ I CERTYFIKACJI S.A. POLISH CENTRE FOR TESTING AND CERTIFICATION inc.

ul. Kłobucka 23A, 02-699 Warszawa Oddział Badań i Certyfikacji w Pile Testing and Certification Branch Office in Piła Laboratorium Nawozów i Wyrobów Chemicznych Fertilizer and Chemical Product Laboratory

ul. J. J. Śniadeckich 11, 64 – 920 Piła tel.: 672138700, 672138200; fax: 672138384; www.pcbc.gov.pl





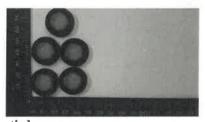
Piła, dnia / day 10.09.2019 r. / yr.

## SPRAWOZDANIE Z BADAŃ NR / TEST REPORT NO. BP.PL/408/19/JF

- 1. Nr zlecenia / Job no.:
- 2. Opis próbki / Sample description:

397/175/19

Uszczelka gumowa z filtrem z siatki stalowej nierdzewnej / Rubber gasked with stainless steel mesh filter



- 2.1 Opakowanie / Package:
- 2.2 Postać próbki / Form of sample:
- 2.3 Próbkę pobrał / Sample collected by:
- 2.4 Stan próbki w czasie przyjęcia / Condition of the sample at the time of delivery:
- 3. Zleceniodawca / Customer:

worek foliowy / plastic bag komponent / component zleceniodawca / customer bez zastrzeżeń / unreservedly

#### FELIKS JAŁOWSKI

"HYDROSTOP ELECTRONIC"

ul. Szamarzewskiego 78/82

60-569 Poznań

Ocena zgodności z Dyrektywą 2011/65/UE (RoHS) / With reference to

Directive 2011/65/EU (RoHS)

26.08.2019

26.08.2019 / 09.09.2019

4.	Cel ba	dania / V	/erification	requested:
----	--------	-----------	--------------	------------

 Data dostarczenia próbki / Sample received date:

 Data rozpoczęcia / zakończenia badania / Testing period:

7. Metody badawcze / Testing Methods:

Lp. / Nc.	Badana cecha / Test item	Metoda badawcza / pomiarowa / Test method / measurement	Dokument odniesienia / Reference document	Status metody(*) / Status of method(*)
7.1	Badanie przesiewowe / Screening			
7.1.1	Zawartość ołowiu (Pb) / Lead contents (Pb)			
7.1.2	Zawartość kadmu (Cd) / Cadmium contents (Cd)	Electronic and the materia		
7.1.3	Zawartość rtęci (Hg) / Mercury contents (Hg)	Fluorescencyjna spektrometria rentgenowska z dyspersją energii (ED -	PN-EN 62321-3-1:2014	A
7.1.4	Zawartość chromu (Cr) / Chromium contents (Cr)	XFR) / Energy dispersive X-ray fluorescence spectrometry		
7.1.5	Zawartość bromu (Br) / Bromine contents (Br)			
7.2.	Badanie chemiczne			
7.2.1	Obecność chromu sześciowartościowego (Cr(VI)) / Hexavalent chromium presence	Wizualna / spektrofotometryczna (UV -Vis) / Visual / spectrophotometric	PN-EN 62321:2009	A
	(Cr(VI))	(UV - Vis)	Załącznik B / Annex B	
	Zawartość ftalanów: ftalan di(2-	Chromatografia gazowa z detekcją		
7.2.2	etyloheksylu) (DEHP), ftalan benzylu butylu	spektrometrią mas (GC – MS) / Gas	PN-EN 62321-8:2017	NA
	(BBP), stalan dibutylu (DBP), stalan	chromatography - mass spectrometry		

diizobutylu (DIBP) / Phthalate contents:	(GC - MS)	
bis(2-ethylhexyl) phthalate (DEHP), butyl		
benzyl phthalate (BBP), dibutyl phthalate		
(DBP), diisobutyl phthalate (DIBP)		

#### 8. Wyniki badania / Test results:

Lp. / No.	Opis próbki / zdjęcie / Description of sample / photo	Jednostka <sup>(1)</sup> / Unit <sup>(1)</sup>	Badana cecha – badanie przesiewo- we <sup>(2)</sup> / Test item – screening <sup>(2)</sup>	Wynik badania przesiewowego <sup>(2)</sup> / Screening result <sup>(2)</sup>	Niepewność rozszerzona <sup>(**)</sup> / Expanded uncertainty <sup>(**)</sup>	Ocena wyniku badania przesiewo- wego <sup>(2)</sup> / Evalua- tion of screening result <sup>(2)</sup>	Badana cecha – badanie chemiczne <sup>(3)</sup> / Test item – chemical test <sup>(3)</sup>	Wynik badania chemicznego <sup>(3)</sup> / Chemical test result <sup>(3)</sup>	Niepewność rozszerzona <sup>(**)</sup> / Expanded uncertainty <sup>(**)</sup>	Stwierdzenie zgodności / niezgodności / niezgodności z wymaganiami RoHS <sup>c++</sup> / Conclusion of compliance / non-compliance with the requirements of RoHS <sup>c++</sup> ?
1.1		mg/kg	Pb	< 50,0	-	BL	Pb	-	-	zgodny / comply
1.2		mg/kg	Cd	< 50,0	-	BL	Cd	-	-	zgodny / comply
1.3		mg/kg	Hg	< 50,0	-	BL	Hg	-	-	zgodny / comply
1.4	00	mg/kg	Cr	476	± 143	BL	Cr(VI)	-	-	zgodny / comply
1.5	polimer / polymer	mg/kg	Br	< 50,0	_	BL	PBB		-	zgodny /
1.5	pointier / porymer	mg/kg	DI	< 50,0		DL	PBDE	-	-	comply
							DEHP	< 100,0	_	
1.0						i	BBP	< 100,0	-	zgodny /
1.6		mg/kg	-	-	-	-	DBP	< 100,0	-	comply
							DIBP	< 100,0	_	
2.1		mg/kg	Pb	379	± 114	BL	Pb	-	_	zgodny / comply
2.2	,	mg/kg	Cd	67,5	± 20	BL	Cd	-	-	zgodny / comply
2.3		mg/kg	Hg	< 50,0	-	BL	Hg	-	-	zgodny / comply
2.4	00	mg/kg	Cr	>1300	-	IN	Cr(VI)	NEG	-	zgodny / comply
2.5	metal / metal	maller	Br				PBB	-	-	
2.3	metal / metal	mg/kg	Dſ	-	-		PBDE	- 1	-	-
							DEHP	-	-	
1, 1							BBP		-	
2.6		mg/kg	-	-	-	-	DBP	-	-	-
							DIBP	_		

znak "-" oznacza, że badanie nie dotyczy danej próbki / the "-" sign means that the test does not apply to a given sample

9. Informacje dodatkowe / Additional information:

#### 9.1 Uwagi / Remarks:

(2) Wynik badania przesiewowego metodą fluorescencyjnej spektrometrii rentgenowskiej z dyspersją energii (ED - XFR) odnosi się do całkowitej zawartości chromu (Cr) i całkowitej zawartości bromu (Br) - wg Dyrektywy 2011/65/UE (RoHS) ograniczeniom podlega zawartość chromu sześciowartościowego (Cr(VI)) oraz zawartość polibromowanych bifenyli (PBBs) i polibromowanych eterów difenylowych (PBDEs). Oznaczenie całkowitej zawartości chromu (Cr) i całkowitej zawartości bromu (Br) umożliwia stwierdzenie zgodności z wymaganiami RoHS lub zakwalifikowanie próbki do dalszych badań chemicznych dotyczących substancji podlegających ograniczeniom: Cr(VI), PBBs, PBDEs. / Screening test by X-ray fluorescence spectrometry energy dispersive (ED - XFR) refers to the total contents of chromium (Cr) and total bromine (Br) - according to Directive 2011/65/EU (RoHS) restriction is subject to the contents of hexavalent chromium (Cr(VI)) and the contents of polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs). Determination of the total contents of chromium (Cr) and total bromine (Br) provides that compliance with the requirements of RoHS and qualify samples for further chemical tests on substances subject to limitation Cr(VI), PBBs, PBDEs.

Dalsze badania chemiczne są konieczne w przypadku, gdy wyniki zawartości substancji podlegających ograniczeniom wg Dyrektywy 2011/65/UE (RoHS), uzyskane za pomocą badań przesiewowych metodą fluorescencyjnej spektrometrii rentgenowskiej z dyspersją energii (ED - XFR), przekraczają ponizsze wartości graniczne, określone w normie PN-EN 62321-3-1:2014 (jednostka: mg/kg) / Further chemical testing are recommended to be performed if the concentration of restricted substances according to Directive 2011/65/UE (RoHS), obtained by screening tests of energy dispersive X-ray fluorescence spectrometry method, exceeds the below warning value according to EN 62321-3-1-2014 (unit: mg/kg):

 $<sup>^{(1)}</sup>$  mg/kg = 0,0001 %

Pierwiastek / Element	Polimery / Polymers	Metale / Metals	Tworzywo zespolone / Composite material
Cd	BL $\leq$ (70 - 3 $\sigma$ ) $\leq$ X $\leq$ (130 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (70 - 3 $\sigma$ ) $<$ X $<$ (130 + 3 $\sigma$ ) $\leq$ OL	$LOD < X < (150 + 3\sigma) \le OL$
Pb	BL $\leq$ (700 - 3 $\sigma$ ) $\leq$ X $\leq$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (700 - 3 $\sigma$ ) $\leq$ X $\leq$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (500 - 3 $\sigma$ ) $\leq$ X $\leq$ (1500 + 3 $\sigma$ ) $\leq$ OL
Hg	BL $\leq$ (700 - 3 $\sigma$ ) $\leq$ X $\leq$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (700 - 3 $\sigma$ ) $\leq$ X $\leq$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (500 - 3 $\sigma$ ) $\leq$ X $\leq$ (1500 + 3 $\sigma$ ) $\leq$ OL
Br	$BL \le (300 - 3\sigma) < X$	-	$BL \le (500 - 3\sigma) \le X$
Cr	$BL \le (700 - 3\sigma) < X$	$BL \le (700 - 3\sigma) < X$	$BL \le (250 - 3\sigma) \le X$

- Oznaczenie / Indication BL PONIŻEJ GRANICY / BELOW LIMIT ustalone na 30 % (50 % dla tworzyw zespolonych) poniżej dopuszczalnego poziomu / determination will be set at 30 % (50 % for composite materials) less than the limit;
- Oznaczenie / Indication OL POWYŻEJ GRANICY / OVER LIMIT ustalone na 30 % (50 % dla tworzyw zespolonych) powyżej dopuszczalnego poziomu / determination will be set at 30 % (50 % for composite materials) greater than the limit;
- Symbol "X" oznacza obszar, gdzie dalsze badania są niezbędne / marks the region where further investigation is necessary;
- Symbol "o" oznacza powtarzalność analizatora na poziomie działania / expresses the repeatabitity of the analyser at the action level;
- Oznaczenie / Indication LOD GRANICA OZNACZALNOŚCI / LIMIT OF DETECTION;
- Oznaczenie / Indication IN WYNIK NIEJEDNOZNACZNY / INCONCLUSIVE;

Na wyniki badań przesiewowych metodą fluorescencyjnej spektrometrii rentgenowskiej z dyspersją energii (ED - XFR) ma wpływ wiele czynników, m. in. wielkość próbki, struktura powierzchni, grubość, parametry aparatu i efekty matrycowe (np. dla materiałów z plastików, gumy, metalu, szkła, ceramiki itd.). / The results shown in this XRF report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e. g. plastic, rubber, metal, glass, ceramic etc.).

- (3) Badania chemiczne dla próbek zakwalifikowanych do dalszych analiz na podstawie wyniku badania przesiewowego. Zgodnie z normą PN-EN 62321:2009 Załącznik B wynik oznaczeń zawartości chromu sześciowartościowego (Cr(VI)) dla próbek metali podawany jest jako POZYTYWNY (POZ) lub NEGATYWNY (NEG). Negatywny oznacza nieobecność Cr(VI), pozytywny oznacza obecność Cr(VI) / Chemical tests for the samples selected for further analysis based on the result of the screening. According to PN-EN 62321:2009 Annex B result of determinations hexavalent chromium (Cr(VI)) for metal samples is given as POSITIVE (POS) or NEGATIVE (NEG). Negative indicate the absence of Cr(VI), positive indicate the presence of Cr(VI).
- 9.2 Substancje objęte ograniczeniem i maksymalne wartości ich stężenia dopuszczalne wagowo w materiałach jednorodnych według Dyrektywy 2011/65/UE (RoHS) / Restricted substances and maximum concentration values tolerated by weight in homogeneous materials according to Directive 2011/65/EU (RoHS):

Lp./ No.	Substancje podlegające ograniczeniom / Restricted substances	Poziom dopuszczalny / Limit
1.	Ołów / Lead (Pb)	0,1 % (1000 mg/kg, ppm)
2.	Kadm / Cadmium (Cd)	0,01 % (100 mg/kg, ppm)
3.	Rtęć / Mercury (Hg)	0,1 % (1000 mg/kg, ppm)
4.	Chrom sześciowartościowy / Hexavalent chromium (Cr(VI))	0,1 % (1000 mg/kg, ppm)
5.	Polibromowane bifenyle / Polybrominated biphenyls (PBBs)	0,1 % (1000 mg/kg, ppm)
6.	Polibromowane etery difenylowe / Polybrominated diphenyl ethers (PBDEs)	0,1 % (1000 mg/kg, ppm)
7.	Ftalany: ftalan di(2-etyloheksylu) (DEHP), ftalan benzylu butylu (BBP), ftalan dibutylu (DBP), ftalan diizobutylu (DIBP) / Phthalate contents: bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), diisobutyl phthalate (DIBP)	0,1 % (1000 mg/kg, ppm)

# 10. Wyniki badań dla próbki są zgodne z wymaganiami określonymi w RoHS / Test results for the sample are consistent with the requirements of the RoHS

Wyniki odnoszą się wyłącznie do próbki badanej. Sprawozdanie z badań bez pisemnej zgody laboratorium nie powinno być powielane inaczej, jak tylko w całości. / The results refer only to the test sample. The test report without the written permission of the laboratory should not be reproduced otherwise than in its entirety.

- (\*) Status metody: A metoda objęta zakresem akredytacji nr AB 006; NA metoda nieakredytowana. / Status of method: A method within the scope of accreditation no. AB 006; NA non accredited method.
- (\*\*) Podana niepewność rozszerzona wynika z niepewności standardowej pomnożonej przez współczynnik rozszerzenia k=2, który dla rozkładu normalnego zapewnia poziom ufności w przybliżeniu 95 %. Niepewność została podana dla wyników metod akredytowanych powyżej dolnego zakresu akredytacji. / The reported expanded uncertainty stems from a standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution provides a level of confidence of approximately 95 %. Uncertainty was given for the results of accredited methods above the lower scope of accreditation.

(\*\*\*) Zgodność / niezgodność z wymaganiami Dyrektywy 2011/65/UE (RoHS) została stwierdzona na podstawie wyników badań uzyskanych za pomocą metod określonych w punkcie 7 sprawozdania. / Compliance / non-compliance with the

requirements of Directive 2011/65/EU (RoHS) has been established on the basis of the test results obtained by the methods described in section 7 of this report.

Autoryzował / Authorised by:

Kierownik Laboratorium
111-
/W — dr Jaček Finster

Koniec sprawozdania / End of report



## POLSKIE CENTRUM BADAŃ I CERTYFIKACJI S.A. POLISH CENTRE FOR TESTING AND CERTIFICATION inc.

ul. Kłobucka 23A, 02-699 Warszawa Oddział Badań i Certyfikacji w Pile Testing and Certification Branch Office in Piła Laboratorium Nawozów i Wyrobów Chemicznych Fertilizer and Chemical Product Laboratory

ul. J. J. Śniadeckich 11, 64 – 920 Piła tel.: 672138700, 672138200; fax: 672138384; www.pcbc.gov.pl





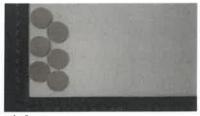
Piła, dnia / day 10.09.2019 r. / yr.

# SPRAWOZDANIE Z BADAŃ NR / TEST REPORT NO. BP.PL/407/19/JF

- 1. Nr zlecenia / Job no.:
- 2. Opis próbki / Sample description:

396/175/19

Membrana gumowa / Rubber membrane



- 2.1 Opakowanie / Package:
- 2.2 Postać próbki / Form of sample:
- 2.3 Próbkę pobrał / Sample collected by:
- 2.4 Stan próbki w czasie przyjęcia / Condition of the sample at the time of delivery:
- 3. Zleceniodawca / Customer:

worek foliowy / plastic bag komponent / component zleceniodawca / customer bez zastrzeżeń / unreservedly

### FELIKS JAŁOWSKI

"HYDROSTOP ELECTRONIC"

ul. Szamarzewskiego 78/82

60-569 Poznań

Ocena zgodności z Dyrektywą 2011/65/UE (RoHS) / With reference to

Directive 2011/65/EU (RoHS)

26.08.2019

26.08.2019 / 09.09.2019

### 4. Cel badania / Verification requested:

- 5. Data dostarczenia próbki / Sample received date:
- 6. Data rozpoczęcia / zakończenia badania / Testing period:
- Metody badawcze / Testing Methods:

Lp. / No.	Badana cecha / Test item	Badana cecha / Test item Metoda badawcza / pomiarowa / Test method / measurement			
7.1	Badanie przesiewowe / Screening				
7.1.1	Zawartość ołowiu (Pb) / Lead contents (Pb)				
7.1.2	Zawartość kadmu (Cd) / Cadmium contents (Cd)	Elu-usosan avina analstrometria			
7.1.3	Zawartość rtęci (Hg) / Mercury contents (Hg)	Fluorescencyjna spektrometria rentgenowska z dyspersją energii (ED - XFR) / Energy dispersive X-ray	PN-EN 62321-3-1:2014	A	
7.1.4	Zawartość chromu (Cr) / Chromium contents (Cr)	fluorescence spectrometry			
7.1.5	Zawartość bromu (Br) / Bromine contents (Br)				
7.2.	Badanie chemiczne				
7.2.1	Zawartość ftalanów: ftalan di(2- etyloheksylu) (DEHP), ftalan benzylu butylu (BBP), ftalan dibutylu (DBP), ftalan diizobutylu (DIBP) / Phthalate contents: bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), diisobutyl phthalate (DIBP)	Chromatografia gazowa z detekcją spektrometrią mas (GC – MS) / Gas chromatography – mass spectrometry (GC - MS)	PN-EN 62321-8:2017	NA	

#### 8. Wyniki badania / Test results:

Lp. / No.	Opis próbki / zdjęcie / Description of sample / photo	Jednostka <sup>(1)</sup> / Unit <sup>(2)</sup>	Badana cecha – badanie przesiewo- we <sup>(2)</sup> / Test item – screening <sup>(2)</sup>	Wynik badania przesiewowego <sup>(2)</sup> / Screening result <sup>(2)</sup>	Niepewność rozszerzona <sup>(**)</sup> / Expanded uncertainty <sup>(**)</sup>	Ocena wyniku badania przesiewo- wego <sup>(2)</sup> / Evalua- tion of screening result <sup>(2)</sup>	Badana cecha – badanie chemiczne <sup>(3)</sup> / Test item – chemical test <sup>(3)</sup>	Wynik badania chemicznego <sup>(3)</sup> / Chemical test resuit <sup>(3)</sup>	Niepewność rozszerzona <sup>(*)</sup> / Expanded uncertainty <sup>(**)</sup>	Stwierdzenie zgodności / niezgodności z wymaganiami RoHS'***) Cenelusion of compliance / non- compliance with the requirements of RoHS'***)
1.1		mg/kg	Pb	< 50,0	-	BL	Pb	-	-	zgodny / comply
1.2		mg/kg	Cd	< 50,0	-	BL	Cd	-	-	zgodny / comply
1.3		mg/kg	Hg	< 50,0	-	BL	Hg	-	-	zgodny / comply
1.4		mg/kg	Cr	< 50,0	-	BL	Cr(VI)	-	-	zgodny / comply
1.5	polimer / polymer	mg/kg	Br	< 50,0		BL	PBB	-		zgodny /
1.5	position posyties	IIIg/Kg	D1	1 30,0		DL	PBDE	-	-	comply
							DEHP	< 100,0	-	
1.6		mg/kg		_ 1			BBP	< 100,0	_	zgodny/
1.0		mg/kg	-	- 1	-	-	DBP	< 100,0	-	comply
							DIBP	< 100,0	-	

znak "-" oznacza, że badanie nie dotyczy danej próbki / the "-" sign means that the test does not apply to a given sample

9. Informacje dodatkowe / Additional information:

#### 9.1 Uwagi / Remarks:

 $^{(1)}$  mg/kg = 0,0001 %

<sup>(2)</sup> Wynik badania przesiewowego metodą fluorescencyjnej spektrometrii rentgenowskiej z dyspersją energii (ED - XFR) odnosi się do całkowitej zawartości chromu (Cr) i całkowitej zawartości bromu (Br) - wg Dyrektywy 2011/65/UE (RoHS) ograniczeniom podlega zawartość chromu sześciowartościowego (Cr(VI)) oraz zawartość polibromowanych bifenyli (PBBs) i polibromowanych eterów difenylowych (PBDEs). Oznaczenie całkowitej zawartości chromu (Cr) i całkowitej zawartości bromu (Br) umożliwia stwierdzenie zgodności z wymaganiami RoHS lub zakwalifikowanie próbki do dalszych badań chemicznych dotyczących substancji podlegających ograniczeniom: Cr(VI), PBBs, PBDEs. / Screening test by X-ray fluorescence spectrometry energy dispersive (ED - XFR) refers to the total contents of chromium (Cr) and total bromine (Br) - according to Directive 2011/65/EU (RoHS) restriction is subject to the contents of hexavalent chromium (Cr(VI)) and the contents of polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs). Determination of the total contents of chromium (Cr) and total bromine (Br) provides that compliance with the requirements of RoHS and qualify samples for further chemical tests on substances subject to limitation Cr(VI), PBBs, PBDEs.

Dalsze badania chemiczne są konieczne w przypadku, gdy wyniki zawartości substancji podlegających ograniczeniom wg Dyrektywy 2011/65/UE (RoHS), uzyskane za pomocą badań przesiewowych metodą fluorescencyjnej spektrometrii rentgenowskiej z dyspersją energii (ED - XFR), przekraczają poniższe wartości graniczne, określone w normie PN-EN 62321-3-1:2014 (jednostka: mg/kg) / Further chemical testing are recommended to be performed if the concentration of restricted substances according to Directive 2011/65/UE (RoHS), obtained by screening tests of energy dispersive X-ray fluorescence spectrometry method, exceeds the below warning value according to EN 62321-3-1-2014 (unit: mg/kg):

Pierwiastek / Element	Polimery / Polymers	Metale / Metals	Tworzywo zespolone / Composite material
Cd	BL $\leq$ (70 - 3 $\sigma$ ) $\leq$ X $\leq$ (130 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (70 - 3 $\sigma$ ) $\leq$ X $\leq$ (130 + 3 $\sigma$ ) $\leq$ OL	$LOD < X < (150 + 3\sigma) \le OL$
Pb	BL $\leq$ (700 - 3 $\sigma$ ) $\leq$ X $\leq$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (700 - 3 $\sigma$ ) $<$ X $<$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (500 - 3 $\sigma$ ) $\leq$ X $\leq$ (1500 + 3 $\sigma$ ) $\leq$ OL
Hg	BL $\leq$ (700 - 3 $\sigma$ ) $<$ X $<$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (700 - 3 $\sigma$ ) $<$ X $<$ (1300 + 3 $\sigma$ ) $\leq$ OL	BL $\leq$ (500 - 3 $\sigma$ ) $\leq$ X $\leq$ (1500 + 3 $\sigma$ ) $\leq$ OL
Br	$BL \le (300 - 3\sigma) < X$	-	$BL \le (500 - 3\sigma) < X$
Cr	$BL \le (700 - 3\sigma) < X$	$BL \le (700 - 3\sigma) < X$	$BL \le (250 - 3\sigma) < X$

- Oznaczenie / Indication BL PONIŻEJ GRANICY / BELOW LIMIT ustalone na 30 % (50 % dla tworzyw zespolonych) poniżej dopuszczalnego poziomu / determination will be set at 30 % (50 % for composite materials) less than the limit;
- Oznaczenie / Indication OL POWYŻEJ GRANICY / OVER LIMIT ustalone na 30 % (50 % dla tworzyw zespolonych) powyżej dopuszczalnego poziomu / determination will be set at 30 % (50 % for composite materials) greater than the limit;
- Symbol "X" oznacza obszar, gdzie dalsze badania są niezbędne / marks the region where further investigation is necessary;
- Symbol "σ" oznacza powtarzalność analizatora na poziomie działania / expresses the repeatabitity of the analyser at the action level;
- Oznaczenie / Indication LOD GRANICA OZNACZALNOŚCI / LIMIT OF DETECTION;
- Oznaczenie / Indication IN WYNIK NIEJEDNOZNACZNY / INCONCLUSIVE;

Na wyniki badań przesiewowych metoda fluorescencyjnej spektrometrii rentgenowskiej z dyspersja energii (ED - XFR) ma wpływ wiele czynników, m. in. wielkość próbki, struktura powierzchni, grubość, parametry aparatu i efekty matrycowe (np. dla materiałów z plastików, gumy, metalu, szkła, ceramiki itd.). / The results shown in this XRF report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e. g. plastic, rubber, metal, glass, ceramic etc.).

- (3) Badania chemiczne dla próbek zakwalifikowanych do dalszych analiz na podstawie wyniku badania przesiewowego. Zgodnie z normą PN-EN 62321:2009 Załącznik B wynik oznaczeń zawartości chromu sześciowartościowego (Cr(VI)) dla próbek metali podawany jest jako POZYTYWNY (POZ) lub NEGATYWNY (NEG). Negatywny oznacza nieobecność Cr(VI), pozytywny oznacza obecność Cr(VI) / Chemical tests for the samples selected for further analysis based on the result of the screening. According to PN-EN 62321:2009 Annex B result of determinations hexavalent chromium (Cr(VI)) for metal samples is given as POSITIVE (POS) or NEGATIVE (NEG). Negative indicate the absence of Cr(VI), positive indicate the presence of Cr(VI).
- 9.2 Substancje objęte ograniczeniem i maksymalne wartości ich stężenia dopuszczalne wagowo w materiałach jednorodnych według Dyrektywy 2011/65/UE (RoHS) / Restricted substances and maximum concentration values tolerated by weight in homogeneous materials according to Directive 2011/65/EU (RoHS):

Lp. / No.	Substancje podlegające ograniczeniom / Restricted substances	Poziom dopuszczalny / Limit
1.	Ołów / Lead (Pb)	0,1 % (1000 mg/kg, ppm)
2.	Kadm / Cadmium (Cd)	0,01 % (100 mg/kg, ppm)
3.	Rtęć / Mercury (Hg)	0,1 % (1000 mg/kg, ppm)
4.	Chrom sześciowartościowy / Hexavalent chromium (Cr(VI))	0,1 % (1000 mg/kg, ppm)
5.	Polibromowane bifenyle / Polybrominated biphenyls (PBBs)	0,1 % (1000 mg/kg, ppm)
6.	Polibromowane etery difenylowe / Polybrominated diphenyl ethers (PBDEs)	0,1 % (1000 mg/kg, ppm)
7.	Ftalany: ftalan di(2-etyloheksylu) (DEHP), ftalan benzylu butylu (BBP), ftalan dibutylu (DBP), ftalan diizobutylu (DIBP) / Phthalate contents: bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), diisobutyl phthalate (DIBP)	0,1 % (1000 mg/kg, ppm)

#### 10. Wyniki badań dla próbki są zgodne z wymaganiami określonymi w RoHS / Test results for the sample are consistent with the requirements of the RoHS

Wyniki odnoszą się wyłącznie do próbki badanej. Sprawozdanie z badań bez pisemnej zgody laboratorium nie powinno być powielane inaczej, jak tylko w całości. / The results refer only to the test sample. The test report without the written permission of the laboratory should not be reproduced otherwise than in its entirety.

(\*) Status metody: A – metoda objęta zakresem akredytacji nr AB 006; NA – metoda nieakredytowana. / Status of method: A – method

within the scope of accreditation no. AB 006; NA - non - accredited method.

(\*\*) Podana niepewność rozszerzona wynika z niepewności standardowej pomnożonej przez współczynnik rozszerzenia k=2, który dla rozkładu normalnego zapewnia poziom ufności w przybliżeniu 95 %. Niepewność została podana dla wyników metod akredytowanych powyżej dolnego zakresu akredytacji. / The reported expanded uncertainty stems from a standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution provides a level of confidence of approximately 95 %. Uncertainty was given for the results of accredited methods above the lower scope of accreditation.

(\*\*\*) Zgodność / niezgodność z wymaganiami Dyrektywy 2011/65/UE (RoHS) została stwierdzona na podstawie wyników badań uzyskanych za pomocą metod określonych w punkcie 7 sprawozdania. / Compliance / non-compliance with the requirements of Directive 2011/65/EU (RoHS) has been established on the basis of the test results obtained by the methods described in section 7 of this report.

Kierownik Laboratorium

Autoryzował / Authorised by:

dr Jacek Finster

Koniec sprawozdania / End of report



