HA/8040
Solvent based Hardeners

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: HA/8040
Solvent based Hardeners

Other means of identification:

Non-applicable

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant uses: Hardener for coatings. For industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

BERNARDO ECENARRO, S.A.
Ugarte Industrialdea, 147
20720 Azkoitia - Gipuzkoa - Spain
Phone: +34 943 74 28 00 - Fax: +34 943 74 06 03
msds@besa.es
http://www.besa.es

1.4 Emergency telephone number: +34 943742800 (8:00-13:00) (14:30-17:30)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning

Hazard statements:

Acute Tox. 4: H332 - Harmful if inhaled.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking.
EUH204: Contains isocyanates. May produce an allergic reaction.
Contains Dibutyltin Dilaurate, Ethylene di(S-thioacetate), Pentaerythritol tetrakis(3-mercaptopropionate), Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate.

Substances that contribute to the classification

Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O); heptan-2-one; Xylene; Ethylene bis(3-mercaptopropionate)

2.3 Other hazards:

- CONTINUED ON NEXT PAGE -

SECTION 2: HAZARDS IDENTIFICATION (continued)

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of additives and resins in solvents

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 28182-81-2 EC: 931-274-8 Index: Non-applicable REACH: 01-2119485796-17-XXXX	**Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)** [1]	Self-classified	**50 - <100 %**
	Regulation 1272/2008	Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	
CAS: 110-43-0 EC: 203-767-1 Index: 606-024-00-3 REACH: 01-2119902391-49-XXXX	**heptan-2-one** [1]	ATP CLP00	**10 - <25 %**
	Regulation 1272/2008	Acute Tox. 4: H302+H332; Flam. Liq. 3: H226 - Warning	
CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX	**N-butyl acetate** [2]	ATP CLP00	**10 - <25 %**
	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	
CAS: 64742-95-6 EC: 265-199-0 Index: 649-356-00-4 REACH: 01-2119486773-24-XXXX	**Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7** [1]	ATP ATP01	**2,5 - <5 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H336; EUH066 - Danger	
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX	**Xylene** [1]	Self-classified	**2,5 - <5 %**
	Regulation 1272/2008	Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	
CAS: 77-58-7 EC: 201-039-8 Index: 050-030-00-3 REACH: 01-2119496068-27-XXXX	**Dibutyltin Dilaurate** [1]	Self-classified	**0,2 - <0,25 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Muta. 2: H341; Repr. 1B: H360; Skin Sens. 1: H317; STOT RE 1: H372; STOT SE 1: H370 - Danger	
CAS: 22504-50-3 EC: 245-044-3 Index: Non-applicable REACH: 01-2120775145-52-XXXX	**Ethylene bis(3-mercaptopropionate)** [1]	Self-classified	**<0,2 %**
	Regulation 1272/2008	Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Skin Sens. 1A: H317 - Warning	
CAS: 1065336-91-5 EC: 915-687-0 Index: Non-applicable REACH: 01-2119491304-40-XXXX	**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate** [1]	Self-classified	**<0,2 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Repr. 2: H361f; Skin Sens. 1A: H317 - Warning	
CAS: 7575-23-7 EC: 231-472-8 Index: Non-applicable REACH: 01-2119486981-23-XXXX	**Pentaerythritol tetrakis(3-mercaptopropionate)** [1]	Self-classified	**<0,2 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1A: H317 - Warning	
CAS: 123-81-9 EC: 204-653-4 Index: Non-applicable REACH: 01-2120775150-61-XXXX	**Ethylene di(S-thioacetate)** [1]	Self-classified	**<0,2 %**
	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Sens. 1A: H317; STOT SE 3: H335 - Warning	

[1] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878
[2] Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

- CONTINUED ON NEXT PAGE -

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	M-factor	
Pentaerythritol tetrakis(3-mercaptopropionate)	Acute	10
CAS: 7575-23-7 EC: 231-472-8	Chronic	10

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

- CONTINUED ON NEXT PAGE -

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,…) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	5 ºC
Maximum Temp.:	30 ºC
Maximum time:	12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC,Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
N-butyl acetate	IOELV (8h)	50 ppm	241 mg/m³
CAS: 123-86-4 EC: 204-658-1	IOELV (STEL)	150 ppm	723 mg/m³
heptan-2-one	IOELV (8h)	50 ppm	238 mg/m³
CAS: 110-43-0 EC: 203-767-1	IOELV (STEL)	100 ppm	475 mg/m³
Xylene	IOELV (8h)	50 ppm	221 mg/m³
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 28182-81-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 931-274-8	Inhalation	Non-applicable	1 mg/m³	Non-applicable	0,5 mg/m³
heptan-2-one	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 110-43-0	Dermal	Non-applicable	Non-applicable	54,27 mg/kg	Non-applicable
EC: 203-767-1	Inhalation	1516 mg/m³	Non-applicable	394,25 mg/m³	Non-applicable
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	600 mg/m³	600 mg/m³	300 mg/m³	300 mg/m³
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 265-199-0	Inhalation	1286,4 mg/m³	1066,67 mg/m³	Non-applicable	837,5 mg/m³
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
Dibutyltin Dilaurate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 77-58-7	Dermal	2,08 mg/kg	Non-applicable	0,43 mg/kg	Non-applicable
EC: 201-039-8	Inhalation	0,059 mg/m³	Non-applicable	0,02 mg/m³	Non-applicable
Ethylene bis(3-mercaptopropionate)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 22504-50-3	Dermal	Non-applicable	Non-applicable	0,14 mg/kg	Non-applicable
EC: 245-044-3	Inhalation	Non-applicable	Non-applicable	0,49 mg/m³	Non-applicable
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1065336-91-5	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
EC: 915-687-0	Inhalation	Non-applicable	Non-applicable	0,68 mg/m³	Non-applicable
Pentaerythritol tetrakis(3-mercaptopropionate)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7575-23-7	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
EC: 231-472-8	Inhalation	Non-applicable	40,13 mg/m³	1,74 mg/m³	40,13 mg/m³
Ethylene di(S-thioacetate)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-81-9	Dermal	Non-applicable	Non-applicable	0,14 mg/kg	Non-applicable
EC: 204-653-4	Inhalation	Non-applicable	Non-applicable	0,49 mg/m³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
heptan-2-one	Oral	Non-applicable	Non-applicable	23,32 mg/kg	Non-applicable
CAS: 110-43-0	Dermal	Non-applicable	Non-applicable	23,32 mg/kg	Non-applicable
EC: 203-767-1	Inhalation	Non-applicable	Non-applicable	84,31 mg/m³	Non-applicable

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
N-butyl acetate	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
CAS: 123-86-4	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	300 mg/m³	300 mg/m³	35,7 mg/m³	35,7 mg/m³
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 265-199-0	Inhalation	1152 mg/m³	640 mg/m³	Non-applicable	178,57 mg/m³
Xylene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	260 mg/m³	260 mg/m³	65,3 mg/m³	65,3 mg/m³
Dibutyltin Dilaurate	Oral	0,02 mg/kg	Non-applicable	0,003 mg/kg	Non-applicable
CAS: 77-58-7	Dermal	0,5 mg/kg	Non-applicable	0,16 mg/kg	Non-applicable
EC: 201-039-8	Inhalation	0,04 mg/m³	Non-applicable	0,005 mg/m³	Non-applicable
Ethylene bis(3-mercaptopropionate)	Oral	Non-applicable	Non-applicable	0,05 mg/kg	Non-applicable
CAS: 22504-50-3	Dermal	Non-applicable	Non-applicable	0,05 mg/kg	Non-applicable
EC: 245-044-3	Inhalation	Non-applicable	Non-applicable	0,074 mg/m³	Non-applicable
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Oral	Non-applicable	Non-applicable	0,05 mg/kg	Non-applicable
CAS: 1065336-91-5	Dermal	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
EC: 915-687-0	Inhalation	Non-applicable	Non-applicable	0,17 mg/m³	Non-applicable
Pentaerythritol tetrakis(3-mercaptopropionate)	Oral	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
CAS: 7575-23-7	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
EC: 231-472-8	Inhalation	Non-applicable	20,07 mg/m³	0,43 mg/m³	20,07 mg/m³
Ethylene di(S-thioacetate)	Oral	Non-applicable	Non-applicable	0,05 mg/kg	Non-applicable
CAS: 123-81-9	Dermal	Non-applicable	Non-applicable	0,05 mg/kg	Non-applicable
EC: 204-653-4	Inhalation	Non-applicable	Non-applicable	0,074 mg/m³	Non-applicable

PNEC:

Identification				
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)	STP	88 mg/L	Fresh water	0,127 mg/L
CAS: 28182-81-2	Soil	53183 mg/kg	Marine water	0,013 mg/L
EC: 931-274-8	Intermittent	1,27 mg/L	Sediment (Fresh water)	266701 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	26670 mg/kg
heptan-2-one	STP	12,5 mg/L	Fresh water	0,098 mg/L
CAS: 110-43-0	Soil	0,321 mg/kg	Marine water	0,01 mg/L
EC: 203-767-1	Intermittent	0,982 mg/L	Sediment (Fresh water)	1,89 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,189 mg/kg
N-butyl acetate	STP	35,6 mg/L	Fresh water	0,18 mg/L
CAS: 123-86-4	Soil	0,09 mg/kg	Marine water	0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 mg/kg
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Dibutyltin Dilaurate	STP	100 mg/L	Fresh water	0 mg/L
CAS: 77-58-7	Soil	0,041 mg/kg	Marine water	0 mg/L
EC: 201-039-8	Intermittent	0,005 mg/L	Sediment (Fresh water)	0,05 mg/kg
	Oral	0,0002 g/kg	Sediment (Marine water)	0,005 mg/kg

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Ethylene bis(3-mercaptopropionate)	STP	Non-applicable	Fresh water	0,00006 mg/L
CAS: 22504-50-3	Soil	Non-applicable	Marine water	Non-applicable
EC: 245-044-3	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	STP	1 mg/L	Fresh water	0,002 mg/L
CAS: 1065336-91-5	Soil	0,21 mg/kg	Marine water	0 mg/L
EC: 915-687-0	Intermittent	0,009 mg/L	Sediment (Fresh water)	1,05 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,11 mg/kg
Pentaerythritol tetrakis(3-mercaptopropionate)	STP	2,39 mg/L	Fresh water	0,00003 mg/L
CAS: 7575-23-7	Soil	0,000184 mg/kg	Marine water	0,0000034 mg/L
EC: 231-472-8	Intermittent	0,00034 mg/L	Sediment (Fresh water)	0,00102 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,000102 mg/kg
Ethylene di(S-thioacetate)	STP	Non-applicable	Fresh water	0,0048 mg/L
CAS: 123-81-9	Soil	Non-applicable	Marine water	Non-applicable
EC: 204-653-4	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	CE CAT III	EN 149:2001+A1:2009 EN 405:2002+A1:2010 EN ISO 136:1998	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	CE CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield	CE CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CE CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	36,57 % weight
V.O.C. density at 20 ºC:	376,69 kg/m³ (376,69 g/L)
Average carbon number:	6,9
Average molecular weight:	115,2 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Fluid
Colour:	Colourless
Odour:	Solvent
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	133 ºC
Vapour pressure at 20 ºC:	746 Pa
Vapour pressure at 50 ºC:	3884,31 Pa (3,88 kPa)
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	1020 - 1040 kg/m³
Relative density at 20 ºC:	1,02 - 1,04
Dynamic viscosity at 20 ºC:	59 - 39 cP
Kinematic viscosity at 20 ºC:	48 mm²/s

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Kinematic viscosity at 40 ºC:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	Non-applicable *
Solubility properties:	Immiscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	32 ºC
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	310 ºC
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Particle characteristics:	
Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
Other safety characteristics:	
Surface tension at 20 ºC:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

- CONTINUED ON NEXT PAGE -

SECTION 10: STABILITY AND REACTIVITY (continued)

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 (3); Xylene (3)
- Mutagenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with mutagenic effects. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23,4 mg/L (4 h)	Rat
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)	LD50 oral	2660 mg/kg	Rat
CAS: 28182-81-2	LD50 dermal	>2000 mg/kg	
EC: 931-274-8	LC50 inhalation	11 mg/L (ATEi)	
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7	LD50 oral	2100 mg/kg	Rat
CAS: 64742-95-6	LD50 dermal	2000 mg/kg	Rabbit
EC: 265-199-0	LC50 inhalation	>20 mg/L	
heptan-2-one	LD50 oral	1600 mg/kg	Rat
CAS: 110-43-0	LD50 dermal	>2000 mg/kg	
EC: 203-767-1	LC50 inhalation	11 mg/L (4 h)	Rat
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg	Rat
EC: 215-535-7	LC50 inhalation	11 mg/L (ATEi)	
Dibutyltin Dilaurate	LD50 oral	2071 mg/kg	Rat
CAS: 77-58-7	LD50 dermal	>2000 mg/kg	
EC: 201-039-8	LC50 inhalation	>20 mg/L	
Ethylene bis(3-mercaptopropionate)	LD50 oral	303 mg/kg	Rat
CAS: 22504-50-3	LD50 dermal	1892 mg/kg	Rabbit
EC: 245-044-3	LC50 inhalation	>20 mg/L	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 oral	3230 mg/kg	Rat
CAS: 1065336-91-5	LD50 dermal	>2000 mg/kg	
EC: 915-687-0	LC50 inhalation	>20 mg/L	
Pentaerythritol tetrakis(3-mercaptopropionate)	LD50 oral	1000 mg/kg	Rat
CAS: 7575-23-7	LD50 dermal	>2000 mg/kg	
EC: 231-472-8	LC50 inhalation	>20 mg/L	
Ethylene di(S-thioacetate)	LD50 oral	303 mg/kg	Rat
CAS: 123-81-9	LD50 dermal	>2000 mg/kg	
EC: 204-653-4	LC50 inhalation	>20 mg/L	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	10666,67 mg/kg (Calculation method)	0 %
Dermal	20276,5 mg/kg (Calculation method)	0 %
Inhalation	13,5 mg/L (4 h) (Calculation method)	0 %

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Acute toxicity:

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)	LC50	Non-applicable		
CAS: 28182-81-2	EC50	Non-applicable		
EC: 931-274-8	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
heptan-2-one	LC50	131 mg/L (96 h)	Pimephales promelas	Fish
CAS: 110-43-0	EC50	Non-applicable		
EC: 203-767-1	EC50	Non-applicable		
N-butyl acetate	LC50	Non-applicable		
CAS: 123-86-4	EC50	Non-applicable		
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 64742-95-6	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 265-199-0	EC50	>1 - 10 mg/L (72 h)		Algae
Xylene	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 1330-20-7	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 215-535-7	EC50	>10 - 100 mg/L (72 h)		Algae
Dibutyltin Dilaurate	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 77-58-7	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 201-039-8	EC50	>0.1 - 1 mg/L (72 h)		Algae
Ethylene bis(3-mercaptopropionate)	LC50	0,0594 mg/L (96 h)	Danio rerio	Fish
CAS: 22504-50-3	EC50	0,35 mg/L (48 h)	Daphnia magna	Crustacean
EC: 245-044-3	EC50	0,046 mg/L (72 h)	Desmodesmus subspicatus	Algae
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LC50	0,9 mg/L (96 h)	Danio rerio	Fish
CAS: 1065336-91-5	EC50	Non-applicable		
EC: 915-687-0	EC50	1,7 mg/L (72 h)	Desmodesmus subspicatus	Algae
Pentaerythritol tetrakis(3-mercaptopropionate)	LC50	0,034 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 7575-23-7	EC50	0,35 mg/L (48 h)	Daphnia magna	Crustacean
EC: 231-472-8	EC50	0,12 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Ethylene di(S-thioacetate)	LC50	Non-applicable		
CAS: 123-81-9	EC50	110 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-653-4	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
N-butyl acetate	NOEC	Non-applicable		
CAS: 123-86-4 EC: 204-658-1	NOEC	23,2 mg/L	Daphnia magna	Crustacean
Xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7 EC: 215-535-7	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	NOEC	Non-applicable		
CAS: 1065336-91-5 EC: 915-687-0	NOEC	1 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-86-4	COD	Non-applicable	Period	5 days
EC: 204-658-1	BOD5/COD	Non-applicable	% Biodegradable	84 %
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7	BOD5	0,19 g O2/g	Concentration	Non-applicable
CAS: 64742-95-6	COD	0,44 g O2/g	Period	Non-applicable
EC: 265-199-0	BOD5/COD	0,43	% Biodegradable	Non-applicable
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradability	
Dibutyltin Dilaurate	BOD5	0 g O2/g	Concentration	100 mg/L
CAS: 77-58-7	COD	Non-applicable	Period	28 days
EC: 201-039-8	BOD5/COD	Non-applicable	% Biodegradable	50 %
Ethylene bis(3-mercaptopropionate)	BOD5	Non-applicable	Concentration	31 mg/L
CAS: 22504-50-3	COD	Non-applicable	Period	28 days
EC: 245-044-3	BOD5/COD	Non-applicable	% Biodegradable	53,8 %
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 1065336-91-5	COD	Non-applicable	Period	28 days
EC: 915-687-0	BOD5/COD	Non-applicable	% Biodegradable	38 %
Pentaerythritol tetrakis(3-mercaptopropionate)	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 7575-23-7	COD	Non-applicable	Period	28 days
EC: 231-472-8	BOD5/COD	Non-applicable	% Biodegradable	26 %
Ethylene di(S-thioacetate)	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-81-9	COD	Non-applicable	Period	Non-applicable
EC: 204-653-4	BOD5/COD	Non-applicable	% Biodegradable	65,9 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
heptan-2-one	BCF	7
CAS: 110-43-0	Pow Log	1.98
EC: 203-767-1	Potential	Low
N-butyl acetate	BCF	4
CAS: 123-86-4	Pow Log	1.78
EC: 204-658-1	Potential	Low
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7	BCF	
CAS: 64742-95-6	Pow Log	4
EC: 265-199-0	Potential	
Xylene	BCF	9
CAS: 1330-20-7	Pow Log	2.77
EC: 215-535-7	Potential	Low
Dibutyltin Dilaurate	BCF	31
CAS: 77-58-7	Pow Log	3.12
EC: 201-039-8	Potential	Moderate
Ethylene bis(3-mercaptopropionate)	BCF	
CAS: 22504-50-3	Pow Log	1.94
EC: 245-044-3	Potential	
Pentaerythritol tetrakis(3-mercaptopropionate)	BCF	24
CAS: 7575-23-7	Pow Log	3.03
EC: 231-472-8	Potential	Low
Ethylene di(S-thioacetate)	BCF	
CAS: 123-81-9	Pow Log	1.46
EC: 204-653-4	Potential	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
heptan-2-one	Koc	280	Henry	17,12 Pa·m³/mol
CAS: 110-43-0	Conclusion	Moderate	Dry soil	Yes
EC: 203-767-1	Surface tension	2,612E-2 N/m (25 ºC)	Moist soil	Yes
N-butyl acetate	Koc	Non-applicable	Henry	Non-applicable
CAS: 123-86-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 ºC)	Moist soil	Non-applicable

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
Xylene	Koc	202	Henry	524,86 Pa·m³/mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Koc	204400	Henry	0E+0 Pa·m³/mol
CAS: 1065336-91-5	Conclusion	Immobile	Dry soil	No
EC: 915-687-0	Surface tension	Non-applicable	Moist soil	No
Pentaerythritol tetrakis(3-mercaptopropionate)	Koc	264	Henry	Non-applicable
CAS: 7575-23-7	Conclusion	Moderate	Dry soil	Non-applicable
EC: 231-472-8	Surface tension	Non-applicable	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

- CONTINUED ON NEXT PAGE -

SECTION 14: TRANSPORT INFORMATION (continued)

14.1	**UN number or ID number:**	UN1263
14.2	**UN proper shipping name:**	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es):**	3
	Labels:	3
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Special regulations:	163, 367, 650
	Tunnel restriction code:	D/E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	**Maritime transport in bulk according to IMO instruments:**	Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1	**UN number or ID number:**	UN1263
14.2	**UN proper shipping name:**	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es):**	3
	Labels:	3
14.4	**Packing group:**	III
14.5	**Marine pollutant:**	No
14.6	**Special precautions for user**	
	Special regulations:	163, 223, 955, 367
	EmS Codes:	F-E, S-E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
	Segregation group:	Non-applicable
14.7	**Maritime transport in bulk according to IMO instruments:**	Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:

14.1	**UN number or ID number:**	UN1263
14.2	**UN proper shipping name:**	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es):**	3
	Labels:	3
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
14.7	**Maritime transport in bulk according to IMO instruments:**	Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

- CONTINUED ON NEXT PAGE -

SECTION 15: REGULATORY INFORMATION (continued)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Contains Dibutyltin Dilaurate

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMMISSION REGULATION (EU) 2020/878

Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.
H332: Harmful if inhaled.
H226: Flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.
Acute Tox. 4: H332 - Harmful if inhaled.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Muta. 2: H341 - Suspected of causing genetic defects.
Repr. 1B: H360 - May damage fertility or the unborn child.
Repr. 2: H361f - Suspected of damaging fertility.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure. (Oral).
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
STOT SE 1: H370 - Causes damage to organs.
STOT SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Skin Sens. 1A: Calculation method
STOT SE 3: Calculation method
Aquatic Chronic 3: Calculation method
Acute Tox. 4: Calculation method
Flam. Liq. 3: Calculation method (2.6.4.3)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

- END OF SAFETY DATA SHEET -