

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE

NAME OF THE PRODUCT UHS hardener Fast
CODE 010045 (0.5L)
 010051 (2.5L)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

CLP Regulation (EC) n° 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 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
 Eye Irrit. 2: Eye irritation, Category 2, H319
 Flam. Liq. 3: Flammable liquids, Category 3, H226
 Skin Irrit. 2: Skin irritation, Category 2, H315
 Skin Sens. 1: Sensitisation, skin, Category 1, H317
 STOT RE 2: Specific target organ toxicity if swallowed, repeated exposure, Category 2, H373
 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2. Label elements

CLP Regulation (EC) n° 1272/2008:

Warning



Hazard statements:

Acute Tox. 4: H332	Harmful if inhaled.
Aquatic Chronic 3: H412	Harmful to aquatic life with long lasting effects.
Eye Irrit. 2: H319	Causes serious eye irritation.
Flam. Liq. 3: H226	Flammable liquid and vapour.
Skin Irrit. 2: H315	Causes skin irritation.
Skin Sens. 1: H317	May cause an allergic skin reaction.
STOT RE 2: H373	May cause damage to organs through prolonged or repeated
exposure (Oral).	
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/protective clothing/eye protection/face
protection.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable
for breathing.	

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing
 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
 EUH208: Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Dibutyltin Dilaurate. May
 produce an allergic reaction

Substances that contribute to the classification

Hexamethylene diisocyanate, oligomers
 Xylene
 Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7

2.3. Other hazards

Product fails to meet PBT/vPvB criteria

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) n°1907/2006 (point 3)

The product contains:

Identification	Chemical name/Classification	Concentration
CAS: 28182-81-2 EC: 931-274-8 Index: Non-aplicable REACH: 01- 2119485796-17- XXXX	Hexamethylene diisocyanate, oligomers ¹ Self-classified Regulation 1272/2008  Acute Tox. 4 : H332 Skin Sens. 1 : H317; STOT SE 3: H335 Warning	25 - <50%
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01- 2119488216-32- XXXX	Xylene ¹ Self-classified Regulation 1272/2008  Acute Tox. 4: H312+H332 Eye Irrit. 2: H319 Skin Irrit. 2: H315 STOT SE 3:H335  Flam. Liq. 3: H226;  Asp. Tox. 1:H304 STOT RE 2: H373 Danger	25 - <50%

CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119475791-29-XXXX	N-butyl acetate ² ATP CLP00 Regulation 1272/2008  Flam. Liq. 3: H226  STOT SE 3: H336; EUH066 Warning	10 - <25%
CAS: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate ² ATP ATP01 Regulation 1272/2008  Flam. Liq. 3: H226 Warning	2,5 - <5%
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 Regulation 1272/2008  Aquatic Chronic 2: H411  Asp. Tox. 1: H304;  Flam. Liq. 3: H226  STOT SE 3: H335 STOTSE 3: H336 EUH066 Danger	2,5 - <5%
CAS: 77-58-7 EC: 201-039-8 Index: Non-aplicable REACH: 01-2119496068-27-XXXX	Dibutyltin Dilaurate ¹ Self-classified Regulation 1272/2008  Aquatic Acute 1: H400 Aquatic Chronic 1: H410;  Muta. 2: H341 STOT RE 1: H372 Repr. 1B: H360  Skin Corr. 1C: H314  Skin Sens. 1: H317 STOT SE 1: H370 Danger	0,25 - <0,5%

CAS: 22504-50-3 CE: 245-044-3 Index: Non applicable REACH: 01-2120775145-52-XXXX	Ethylene bis (3-mercaptopropionate) ¹ Self-classified Regulation 1272/2008  Aquatic Acute 1: H400 Aquatic Chronic1: H410 Eye Irrit. 2: H319  Acute Tox. 4: H302+H312 Skin Sens. 1: H317 Warning	<0,2%
CAS: 1065336-91-5 CE: 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 Regulation 1272/2008  Aquatic Acute 1: H400 Aquatic Chronic1: H410  Skin Sens. 1: H317 Warning	<0,2%
CAS: 7575-23-7 CE: 231-472-8 Index: Non applicable REACH: 01-2119486981-23-XXXX	Pentaerythritol tetrakis (3-mercaptopropionate) ¹ Self-classified  Aquatic Acute 1: H400 Aquatic Chronic 1: H410  Skin Sens. 1A : H317 Acute Tox. 4: H302 Warning	<0,2%

¹ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

² Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830
 To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

Other information:

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

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, as 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

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

If possible, use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

IT IS RECOMMENDED NOT to use tap 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 individual respiratory equipment. 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. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Isolate leaks provided that there is no additional risk for the people performing this task. 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 inertization agent. Destroy 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.

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.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe manipulation

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.

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 94/9/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.

Technical recommendations to prevent ergonomic and toxicological risks

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

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. Condition for safe storage, including any incompatibilities

Technical measures for storage

Minimum Temp	5 °C
Maximum Temp	30 °C
Maximum time	24 Months

Storage

General conditions

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the work environment:

Identification	Environmental limits		
N-butyl acetate CAS: 123-86-4 CE: 204-658-1	IOELV (8h)	50 ppm	241 mg/m ³
	IOELV (STEL)	150 ppm	723 mg/m ³
Xylene CAS: 1330-20-7 CE: 215-535-7	IOELV (8h)	50 ppm	221 mg/m ³
	IOELV (STEL)	100 ppm	442 mg/m ³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	IOELV (8h)	50 ppm	275 mg/m ³
	IOELV (STEL)	100 ppm	550 mg/m ³

DNEL (Workers)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 931-274-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	1mg/m ³	Non-applicable	0,5 mg/m ³
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	108mg/kg	Non-applicable
	Inhalation	289 mg/m ³	289mg/m ³	77mg/m ³	Non-applicable
N-butyl acetate CAS: 123-86-4 CE: 204-658-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	960 mg/m ³	960mg/m ³	480mg/m ³	480mg/m ³

2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	153,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	275 mg/m ³	Non-applicable
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	1286,4 mg/m ³	1066,67 mg/m ³	Non-applicable	837,5 mg/m ³
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	1 mg/kg	Non-applicable	0,2 mg/kg	Non-applicable
	Inhalation	0,07 mg/m ³	Non-applicable	0,01 mg/m ³	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 CAS: 1065336-91-5 CE: 915-687-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,43 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,02 mg/m ³	Non-applicable
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 CE: 231-472-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Inhalation	Non-applicable	40,13 mg/m ³	1,74 mg/m ³	40,13 mg/m ³

DNEL (General population)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	859,7 mg/m ³	859,7 mg/m ³	102,34 mg/m ³	102,34 mg/m ³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	54,8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33 mg/kg	Non-applicable

Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	1152 mg/m ³	640 mg/m ³	Non-applicable	178,57 mg/m ³
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	Oral	0,01 mg/kg	Non-applicable	0,002 mg/kg	Non-applicable
	Dermal	0,5 mg/kg	Non-applicable	0,08 mg/kg	Non-applicable
	Inhalation	0,02 mg/m ³	Non-applicable	0,003 mg/m ³	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 CAS: 1065336-91-5 CE: 915-687-0	Oral	Non-applicable	Non-applicable	0,05 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,17 mg/m ³	Non-applicable
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 CE: 231-472-8	Oral	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	20,07 mg/m ³	0,43 mg/m ³	20,07 mg/m ³

PNEC:

Identificación				
Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 931-274-8	STP	38,3 mg/L	Fresh water	0,127 mg/L
	Soil	53182 mg/kg	Marine water	0,0127 mg/L
	Intermitter	1,27 mg/L	Sediment (Fresh water)	266700 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	26670 mg/kg
Xylene CAS: 1330-20-7 EC: 215-535-7	STP	6,58 mg/L	Fresh water	0,327 mg/L
	Soil	2,31 mg/kg	Marine water	0,327 mg/L
	Intermitter	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	STP	35,6 mg/L	Fresh water	0,18 mg/L
	Soil	0,0903 mg/kg	Marine water	0,018 mg/L
	Intermitter	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0981 mg/kg
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	STP	100 mg/L	Fresh water	0,635 mg/L
	Soil	0,29 mg/kg	Marine water	0,0635 mg/L
	Intermitter	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non applicable	Sediment (Marine water)	0,329 mg/kg
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	STP	100 mg/L	Fresh water	0,000463 mg/L
	Soil	Non-applicable	Marine water	0,0000463 mg/L
	Intermitter	0,00463 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	0,2 g/kg	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 CAS: 1065336-91-5 CE: 915-687-0	STP	1 mg/L	Fresh water	0,002 mg/L
	Soil	0,21 mg/kg	Marine water	0 mg/L
	Intermitter	0,009 mg/L	Sediment (Fresh water)	0,05 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,005 mg/kg
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 CE: 231-472-8	STP	2,39 mg/L	Fresh water	0,00003 mg/L
	Soil	0,00184 mg/kg	Marine water	0,0000034 mg/L
	Intermitter	0,00034 mg/L	Sediment (Fresh water)	0,00102 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,000102 mg/kg

8.2. Exposure controls

General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection 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.



Respiratory protection

Mandatory respiratory tract protection.

Filter mask for gases, vapours and particles.

Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected.

CEN Standard

EN 149: 2001 + A1:2009

EN 405:2001+A1:2009

Labelling



Ocular and facial protection

Mandatory face protection.

Face mask.

Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

CEN Standard

EN 166:2001

EN 167: 2001

EN 168: 2001

EN ISO 4007: 2012

Labelling





Hands protection

Mandatory hand protection

NON-disposable chemical protective gloves.

The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used.

Do not use protective creams.

CEN Standard

EN374-1:2003

EN374-3:2003/AC: 2006

EN420:2003+A1:2009

Labelling



Body protection

Mandatory complete body protection.

Disposable clothing for protection against chemical risks, with antistatic and fireproof properties.

For professional use only. Clean periodically according to the manufacturer's instructions.

CEN Standard

EN 1149-1,2,3

EN 13034:2005 + A1:2009

EN ISO 13982-1:2004/A1:2010

EN ISO 6529:2001

EN ISO 6530:2005

EN ISO 13688:2013

EN 464:1994

Labelling



Body protection

Mandatory foot protection

Safety footwear for protection against chemical risk, with antistatic and heat resistant properties.

Replace boots at any sign of deterioration.

CEN Standard

EN 13287:2008

EN ISO 20345:2011

EN 1832-1:2006.

Labelling



Emergency measures

Emergency shower
 ANSI Z358-1
 ISO 3864-1:2002
 Eyewash stations
 DIN 12 899
 ISO 3864-1:2002

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 epigraph 7.1.D.

Volatile organic compounds

With regard to Directive 2010/75/EU

This product has the following characteristics:

V.O.C. (Supply):	49,96 % weight
V.O.C. density at 20°C:	504,6 kg/m ³ (504,6 g/L)
Average carbon number:	7,32
Average molecular weight:	112,22 g/mol

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic physical and chemical properties

For complete information see the product data sheet.

Appearance	
Physical state at 20°C	Liquid
Appearance	Fluid
Colour	Colourless
Odour	Solvent
Odour threshold	Non-applicable*
Volatility	
Boiling point at atmospheric pressure:	136 °C
Vapour pressure at 20 °C:	817 Pa
Vapour pressure at 50 °C:	4349,23 Pa (4,35 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description	
Density at 20 °C:	1000 - 1020 kg/m ³
Relative density at 20 °C:	1 - 1,02
Dynamic viscosity at 20 °C:	33 cP
Kinematic viscosity at 20 °C:	43 - 23 cSt
Kinematic viscosity at 40 °C:	33 cSt
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Immiscible
Decomposition temperature:	Non-applicable *

Melting point/freezing point:	Non-applicable *
Explosive properties	Non-applicable*
Oxidising properties	Non-applicable*
Flammability	
Flash Point:	27 °C
Flammability (solid, gas)	Non-applicable*
Autoignition temperature:	315 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Explosive	
Lower explosive limit	Non-applicable*
Upper flammability	Non-applicable*
Other information	
Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

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

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2. Chemical stability

Chemically stable under the 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	Combustive materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6. Hazardous decomposition products

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 (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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 recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

Ingestion:

Acute toxicity:

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

Corrosivity/irritability:

The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

Inhalation (acute effect):

Acute toxicity:

Exposure in high concentration can cause a breakdown in 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.

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

- Contact with the skin:

Produces skin inflammation.

- Contact with the eyes:

Produces eye damage after contact

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 dangerous for the effects mentioned. For more information see section 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 dangerous for this effect. For more information see section 3.

Sensitizing effects:

Respiratory:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

Cutaneous:

Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

Specific target organ toxicity (STOT) - single exposure:

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

Specific target organ toxicity (STOT)-repeated exposure:

Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

Skin:

Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3..

Aspiration hazard

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

11.2 Other information

Non-applicable.

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LD50 oral	12789 mg/kg	Rat
	LD50 dermal	12112 mg/kg	Rabbit
	LC50 inhalation	23,4 mg/L (4h)	Rat
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200- 753-7 CAS: 64742-95-6 EC: 265-199-0	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	2000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L (4h)	
Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 931-274-8	LD50 oral	5100 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	11 mg/L (4h) (ATEi)	
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg (ATEi)	Rat
	LC50 inhalation	11 mg/L (4h) (ATEi)	
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LD50 oral	8532 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rat
	LC50 inhalation	30 mg/L (4h)	Rat
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	LD50 oral	175 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Ethylene bis (3- mercaptpropionate) CAS: 22504-50-3 CE:245-044-3	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	Non- applicable	
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate CAS: 1065336-91-5 CE: 915-687-0	LD50 oral	3230 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Pentaerythritol tetrakis (3- mercaptpropionate) CAS: 7575-23-7 CE: 231-472-8	LD50 oral	1000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	

Acute Toxicity Estimate (ATE mix):

	ATE mix	Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	3611 mg/kg (Calculation method)	0%
Inhalation	14,02 mg/L (4h) (Calculation Method)	0%

12. ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available.

12.1. Toxicity

Identification	Acute toxicity		Species	Genus
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	Non-applicable		
	EC50	Non-applicable		
	EC50	675 mg/L (72h)	Scenedesmus subspicatus	Algae
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LC50	161 mg/L (96h)	Pimephales promelas	Fish
	EC50	481 mg/L (48h)	Daphnia sp.	Crustacean
	EC50	Non-applicable		
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	LC50	>1-10 mg/L (96h)		Fish
	EC50	>1-10 mg/L (48h)		Crustacean
	EC50	>1-10 mg/L (72)		Algae
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	LC50	>1-10 mg/L (96h)		Fish
	EC50	>1-10 mg/L (48h)		Crustacean
	EC50	>1-10 mg/L (72)		Algae
Ethylene bis (3-mercaptopropionate) CAS: 22504-50-3 CE: 245-044-3	LC50	>1-10 mg/L (96h)		Fish
	EC50	>1-10 mg/L (48h)		Crustacean
	EC50	>1-10 mg/L (72)		Algae
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate CAS: 1065336-91-5 CE: 915-687-0	LC50	0,9 mg/L (96h)	Danio rerio	Fish
	EC50	Non-applicable		
	EC50	1,7 mg/L (72h)	Desmodesmus subspicatus	Algae
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 CE: 231-472-8	LC50	0,034 mg/L (96h)	Oncorhynchus mykiss	Fish
	EC50	0,35 mg/L (48h)	Daphnia magna	Crustacean
	EC50	0,12 mg/L (72h)	Pseudokirchneriella subcapitata	Algae

12.2. Persistence and degradability:

Identification	Degradability		Biodegradability	
Xylene CAS: 1330-20-7 EC: 215-535-7	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	88%

N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	5 days
	BOD5/COD	0.79	% Biodegradable	84%
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BOD5	Non-applicable	Concentration	785 mg/L
	COD	Non-applicable	Period	8 días
	BOD5/COD	Non-applicable	% Biodegradable	100%
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	BOD5	0.19 g O2/g	Concentration	Non-applicable
	COD	0.44 g O2/g	Period	Non-applicable
	BOD5/COD	0.43	% Biodegradable	Non-applicable
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	BOD5	0.00054 g O2/g)	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	50%
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate CAS: 1065336-91-5 EC: 915-687-0	BOD5	Non-applicable	Concentration	20 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	38%
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	26%

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
Xylene CAS: 1330-20-7 EC: 215-535-7	BCF	9
	Pow Log	2,77
	Potential	Low
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF	4
	Pow Log	1,78
	Potential	Low
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BCF	1
	Pow Log	0,43
	Potential	Low
Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	BCF	
	Pow Log	4
	Potential	
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	BCF	31
	Pow Log	3,12
	Potential	Moderate
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	BCF	24
	Pow Log	3,03
	Potential	Low

12.4. Mobility in soil:

Identification	Absorption/desorption		Volatility	
Xylene CAS: 1330-20-7 EC: 215-535-7	Koc	202	Henry	524,86 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,478E-2 N/m (25°C)	Moist soil	Non-applicable
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate CAS: 1065336-91-5 CE: 915-687-0	Koc	204400	Henry	0E +0 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 CE: 231-472-8	Koc	264	Henry	Non-applicable
	Conclusion	Moderate	Dry soil	Non-applicable
	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. Other adverse effects

Not described.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 03 05*	Organic wastes containing dangerous substances	Dangerous

Type of waste

(Regulation (EU) No 1357/2014):

HP14 Ecotoxic

HP3 Flammable

HP4 Irritant — skin irritation and eye damage

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.

We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:




In accordance with Annex II of Regulation (EC) nº1907/2006 (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

14. TRANSPORT INFORMATION

14.1 UN Number ADR, RID, IMDG, IATA/OACI	UN1263
14.2 UN proper shipping name ADR, RID, IMDG, IATA/OACI	PAINT RELATED MATERIAL
14.3 Transport of dangerous Transport of dangerous goods by land ADR 2017/RID 2017  Class Label	 3 3
Transport of dangerous goods by sea IMDG 38-16  Class Label	 3 3
Transport of dangerous goods by air IATA/OACI 2017  Class Label	 3 3

14.4 Packing group ADR, RID, IMDG, IATA/OACI	III
14.5 Environmental hazards:	NO
14.6 Special precautions for user ADR 2015/RID 2015 IMDG 38-16	- 163, 367, 640E, 650 163, 223, 955, 367
Tunnel restriction code ADR/RID IMDG 38-16	D/E F-E, S-E
Physical-Chemical properties	See section 9.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Limited quantities (LQ)	5L

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) 1907/2006 (REACH):

Non-applicable

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

Non-applicable

Regulation (EC) 1005/2009

About substances that deplete the ozone layer:

Non-applicable

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

Non-applicable

REGULATION (EU) No 649/2012

In relation to the import and export of hazardous chemical products:

Contains Dibutyltin Dilaurate

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

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopie" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

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 data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, 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.

16. OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 2015/830)

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

CLP Regulation (EC) n° 1272/2008 (SECTION 2, SECTION 16):

- Supplementary information

16.1 Relevant phrases

Texts of the legislative phrases mentioned in section 2:

- H317: May cause an allergic skin reaction
- H412: Harmful to aquatic life with long lasting effects
- H373: May cause damage to organs through prolonged or repeated exposure (Oral)
- H335: May cause respiratory irritation
- H315: Causes skin irritation
- H332: Harmful if inhaled
- H226: Flammable liquid and vapour
- H319: Causes serious eye irritation

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) n° 1272/2008:

- 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
- 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
Skin Corr. 1C: H314 - Causes severe skin burns and eye damage
Skin Irrit. 2: H315 - Causes skin irritation
Skin Sens. 1: 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. 1: Calculation method
Aquatic Chronic 3: Calculation method
STOT RE 2: Calculation method
STOT SE 3: Calculation method
Skin Irrit. 2: Calculation method
Acute Tox. 4: Calculation method
Flam. Liq. 3: Calculation method (2.6.4.3)
Eye Irrit. 2: Calculation method

Advice related to training:

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

16.2 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: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol–water partition coefficient
Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products.