# **SAFETY DATA SHEET**



8-460 HS420 Hardener Slow

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier

Product name : 8-460 HS420 Hardener Slow

Product code : 8-460

Product description : Not available.

Product type : Liquid.

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

#### **Identified uses**

Professional spray painting, near-industrial setting

Use in coatings - Hardener.

### **Uses advised against**

Not applicable.

### 1.3 Details of the supplier of the safety data sheet

Valspar b.v.

Zuiveringweg 89

8243 PE Lelystad

The Netherlands

tel: +31 (0)320 292200

e-mail address of person responsible for this SDS

: msds@valspar.com

### **National contact**

Sherwin-Williams UK Limited

Avenue One Station Lane, Witney, United Kingdom

Oxfordshire OX28 4XR

### 1.4 Emergency telephone number

### **National advisory body/Poison Centre**

**Telephone number** : UK: 0-800-014-8126

CALL: +(44)-870-8200418 (Hours of operation - 24 hours)

<u>Supplier</u>

**Telephone number** : Call: +31 (0)320 292200 (8:30AM - 5PM)

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226

Acute Tox. 4, H332

Skin Sens. 1, H317

**STOT SE 3, H335** 

**STOT SE 3, H336** 

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 1/26

### **SECTION 2: Hazards identification**

**Hazard pictograms** 





Signal word : Warning

**Hazard statements**: Flammable liquid and vapour.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention: Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. Avoid release to the environment. Avoid

breathing vapour.

Response : IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off

contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of

water. If skin irritation or rash occurs: Get medical advice or attention.

Storage : Store in a well-ventilated place. Keep container tightly closed.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label

elements

: Contains isocyanates. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

**Special packaging requirements** 

Containers to be fitted

with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Hexamethylene diisocyanate, oligomers	EC: 500-060-2 CAS: 28182-81-2	≥50 - ≤75	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 265-199-0	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336	[1]

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 2/26

# **SECTION 3: Composition/information on ingredients**

	0.00 0.00 0.00			1
	CAS: 64742-95-6		Asp. Tox. 1, H304 Aquatic Chronic 2,	
			H411	
			EUH066	
Trimethylbenzene	EC: 247-099-9 CAS: 25551-13-7	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H332	[1] [2]
	CAS. 25551-15-7		Skin Irrit. 2, H315	
			Eye Irrit. 2, H319	
			Asp. Tox. 1, H304	
			Aquatic Chronic 2, H411	
mesitylene	REACH #:	<1	Flam. Liq. 3, H226	[1] [2]
	01-2119463878-19		STOT SE 3, H335	
	EC: 203-604-4 CAS: 108-67-8		Aquatic Chronic 2, H411	
	Index: 601-025-00-5		11411	
1,2,4-trimethylbenzene	REACH #:	<1	Flam. Liq. 3, H226	[1] [2]
	01-2119472135-42		Acute Tox. 4, H332	
	EC: 202-436-9 CAS: 95-63-6		Skin Irrit. 2, H315 Eye Irrit. 2, H319	
	Index: 601-043-00-3		STOT SE 3, H335	
			Aquatic Chronic 2,	
xylene	REACH #:	≤0.3	H411 Flam. Liq. 3, H226	[1] [2]
Xylerie	01-2119488216-32	30.3	Acute Tox. 4, H312	[1][2]
	EC: 215-535-7		Acute Tox. 4, H332	
	CAS: 1330-20-7		Skin Irrit. 2, H315	
1,2,3-trimethylbenzene	Index: 601-022-00-9 EC: 208-394-8	≤0.3	Flam. Liq. 3, H226	[1] [2]
1,2,0 1111011111001120110	CAS: 526-73-8	_0.0	Skin Irrit. 2, H315	[ ' ] [ – ]
			Eye Irrit. 2, H319	
ethylbenzene	REACH #:	≤0.1	STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethylberizerie	01-2119489370-35	30.1	Acute Tox. 4, H332	[י][ב]
	EC: 202-849-4		STOT RE 2, H373	
	CAS: 100-41-4 Index: 601-023-00-4		(hearing organs)	
cumene	EC: 202-704-5	<0.1	Asp. Tox. 1, H304 Flam. Liq. 3, H226	[1] [2]
	CAS: 98-82-8		Carc. 1B, H350	' ' ' '
	Index: 601-024-00-X		STOT SE 3, H335	
			Asp. Tox. 1, H304 Aquatic Chronic 2,	
			H411	
naphthalene	EC: 202-049-5	<0.1	Acute Tox. 4, H302	[1] [2]
	CAS: 91-20-3 Index: 601-052-00-2		Carc. 2, H351 Aquatic Acute 1, H400	
	IIIdex. 001-032-00-2		(M=1)	
			Àquatic Chronic 1,	
henzene	DEACH #.	<0.1	H410 (M=1)	[41 [2]
benzene	REACH #: 01-2119447106-44	<b>\_</b> 0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315	[1] [2]
	EC: 200-753-7		Eye Irrit. 2, H319	
	CAS: 71-43-2		Muta. 1B, H340	
	Index: 601-020-00-8		Carc. 1A, H350 STOT RE 1, H372	
			Asp. Tox. 1, H304	
toluene	REACH #:	≤0.1	Flam. Liq. 2, H225	[1] [2]
	01-2119471310-51 EC: 203-625-9		Skin Irrit. 2, H315 Repr. 2, H361d	
	CAS: 108-88-3		STOT SE 3, H336	
	Index: 601-021-00-3		STOT RE 2, H373	
			Asp. Tox. 1, H304	
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 3/26

3-460 HS420 Hardener Slow						
SECTION 3: Composition/information on ingredients						
See Section 16 for the full text of the H statements declared above.						

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### <u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

### **Over-exposure signs/symptoms**

Eye contact Inhalation

- : No specific data.
- : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 4/26

### **SECTION 4: First aid measures**

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

: Do not use water jet.

media

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** 

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and material for containment and cleaning up

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 5/26

### **SECTION 6: Accidental release measures**

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### **Seveso Directive - Reporting thresholds**

### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

**Recommendations** : Not available. **Industrial sector specific** : Not available.

Date of issue/Date of revision

solutions

: 10/25/2023 Date

Date of previous issue

: 2/7/2023

Version : 1

6/26

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Hexamethylene diisocyanate, oligomers	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,
	all, except methyl isocyanate as -NCO] Inhalation sensitiser.
	STEL: 0.07 mg/m³, (as -NCO) 15 minutes.
	TWA: 0.02 mg/m³, (as -NCO) 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
Trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	[trimethylbenzenes, all isomers or mixtures]
	TWA: 25 ppm 8 hours.
	TWA: 125 mg/m³ 8 hours.
mesitylene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	[trimethylbenzenes, all isomers or mixtures]
	TWA: 125 mg/m <sup>3</sup> 8 hours.
	TWA: 25 ppm 8 hours.
1,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
•	[trimethylbenzenes, all isomers or mixtures]
	TWA: 125 mg/m³ 8 hours.
	TWA: 25 ppm 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
1.3	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³, 0 times per shift, 15 minutes.
	STEL: 100 ppm, 0 times per shift, 15 minutes.
	TWA: 220 mg/m³, 0 times per shift, 8 hours.
	TWA: 50 ppm, 0 times per shift, 8 hours.
1,2,3-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
1,2,0-umreuryiberizerie	[trimethylbenzenes, all isomers or mixtures]
	TWA: 125 mg/m <sup>3</sup> 8 hours.
	TWA: 25 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
Caryiberizerie	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
cumene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
Cumene	through skin.
	STEL: 250 mg/m³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 125 mg/m <sup>3</sup> 8 hours.
	TWA: 25 ppm 8 hours.
nanhthalana	
naphthalene	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values
	TWA: 50 mg/m³ 8 hours.
h	TWA: 10 ppm 8 hours.
benzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 1 ppm 8 hours.
	TWA: 3.25 mg/m³ 8 hours.
toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 191 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 7/26

# **SECTION 8: Exposure controls/personal protection**

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Hexamethylene diisocyanate, oligomers	DNEL	Long term Inhalation	0.5 mg/m <sup>3</sup>	Workers	Local
ongomoro	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
n-butyl acetate	DNEL	Long term Inhalation	35.7 mg/m³	General population [Consumers]	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population [Consumers]	Local
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal Short term Dermal	7 mg/kg bw/day 11 mg/kg	Workers Workers	Systemic Systemic
	DNEL	Long term	bw/day 12 mg/m³	General	Systemic
	DNEL	Inhalation Long term	35.7 mg/m <sup>3</sup>	population	Local
	DNEL	Inhalation Long term	48 mg/m³	population Workers	Systemic
	DNEL	Inhalation Short term	300 mg/m <sup>3</sup>	General	Local
	DNEL	Inhalation Short term	300 mg/m³	population General	Systemic
	DNEL	Inhalation Long term Inhalation	300 mg/m <sup>3</sup>	population Workers	Local
ate of issue/Date of revision : 10/2	5/2023	Date of previous issue	• 2/7/202:	3 1/0	rsion :1 8/26

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 8/26

# SECTION 8: Exposure controls/personal protection

Solvent naphtha (petroleum), light arom.  DNEL Long term Inhalation DNEL Long term Oral Long term Oral Inhalation DNEL Long term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
December		DNEL	Short term	600 mg/m³	Workers	Systemic
DNEL   Long term Oral   1 mg/kg bw/day   DNEL   Long term   10 mg/m²   DNEL   Long term   178.57 mg/ inhalation   DNEL   Long term   178.57 mg/ inhalation   DNEL   Long term   1066.67 mg/m²   Inhalation   DNEL   Short term   1286.4 mg/ inhalation   DNEL   Short term   1286.4 mg/ inhalation   DNEL   Short term   1671 mg/m²   Inhalation   DNEL   Short term   1066.67 mg/m²   Inhalation   DNEL   Short term   100 mg/m²   Inhalation   DNEL   Long term   100 mg/m²   Inhalation   Inhalation   DNEL   Short term   100 mg/m²   Inhalation   Inhalation   DNEL   Short term   Inhalation   Inhalation   Inhalation   DNEL   Short term   Inhalation   Inh	. " , "	DNEL				Systemic
DNEL   Long term Oral   1 mg/kg   General   Systemic   Dwiddy   25 mg/kg   bw/day   25 mg/kg		DNEL		•	General	Systemic
DNEL Long term Dermal Dermal Dermal DNEL Long term phalation DNEL Long term (Inhalation DNEL Short term (Inhalation DNEL Long term (Inhalation DNEL Long term (Inhalation DNEL Short term (Inhalation DNEL Long term (Inhalation DNEL Long term (Inhalation DNEL Short term (Inhalation DNEL Long term (Inhalation DNEL Short term (Inhalation DNEL Long term (Inhalation DNEL Short term (Inhala		DNEL			General	Systemic
DNEL   Long term   Is0 mg/m³   Morkers   Systemic   Inhalation   DNEL   Long term   Inhalation   DNEL   Long term   Inhalation   DNEL   Long term   Inhalation   Inhalation   DNEL   Long term   Inhalation   DNEL   Short term   Inhalation   Inhalation   DNEL   Short term   Inhalation   Inhalation   DNEL   Short term   Inhalation   Inhalation   DNEL   Cong term   Inhalation   DNEL   Long term   Inhalation   DNEL   Short term   Inhalation   Inhalation   DNEL   Short term   Inhalation   Inhalat		DNEL	Long term Dermal	25 mg/kg		Systemic
DNEL Long term Inhalation Ung term		DNEL			Workers	Systemic
DNEL Long term Inhalation United the proposition of		DNEL	Long term	0.41 mg/m³		Systemic
DNEL   Long term   178.57 mg/   population   DNEL   Local   population   DNEL   Local   population   DNEL   Local   population   DNEL   Local   population   DNEL		DNEL	Long term	1.9 mg/m³		Systemic
DNEL   Short term   Short ter		DNEL	Long term			Local
DNEL Short term 1066.67 Inhalation 25 Morkers 1066.67 Inhalation 35 Mort term 1066.67 Inhalation 25 Morkers 26 General 26 General 26 Morkers 27 Morkers 27 Morkers 27 Morkers 28 Morkers 28 Morkers 29		DNEL	Short term		General	Local
DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Long term			Local
DNEL Short term Inhalation DNEL Inhalation Inhalati		DNEL	Short term	1066.67	Workers	Local
DNEL   Short term   Inhalation   DNEL   Long term   Oral   DNEL   Short term   Inhalation   DNEL   Long term   Dome   DNEL   Long term   DNEL   DNE		DNEL	Short term	1152 mg/		Systemic
mesitylene  DNEL   Long term Oral   15 mg/kg bw/day   29.4 mg/m³   Local population   Workers   Local   Workers   Local   Local population   Local		DNEL				Systemic
DNEL Short term Inhalation Short term Inhalation DNEL Coal Inhalation DNEL Long term Dermal Inhalation DNEL Long term DNEL Long term Inhalation DNEL Long term DNEL DNEL Long term DNEL DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	mesitylene	DNEL		15 mg/kg		Systemic
DNEL Short term Inhalation Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNE		DNEL			General	Local
DNEL Short term Inhalation DNEL Code Inhalation DNEL Short term DOME DNEL Short term DNEL S		DNEL	Short term	29.4 mg/m³	General	Systemic
DNEL   Short term   Inhalation   DNEL   Long term Dermal   Long term Dermal   Long term		DNEL		100 mg/m³		Local
DNEL Long term Dermal lónday kg bw/day DNEL Long term 29.4 mg/m³ General population DNEL Long term 100 mg/m³ General population DNEL Long term 100 mg/m³ Workers DNEL Long term 100 mg/m³ General population DNEL Long term Dermal 9512 mg/ kg bw/day DNEL Long term Oral 15 mg/kg bw/day DNEL Short term 100 mg/m³ General population DNEL Short term 29.4 mg/m³ General population DNEL Short term 100 mg/m³ Workers DNEL Short term 100 mg/m³ Local		DNEL		100 mg/m³	Workers	Systemic
DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Oral  1,2,4-trimethylbenzene  DNEL Short term Inhalation		DNEL			Workers	Systemic
Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Long term Oral Inhalation DNEL Short term Inhalation		DNEL				Local
Inhalation DNEL Long term Inhalation DNEL Long term Dermal 1,2,4-trimethylbenzene  DNEL Long term Oral  DNEL Long term Oral  DNEL Long term Oral  DNEL Short term Inhalation		DNEL		29.4 mg/m <sup>3</sup>		Systemic
Inhalation Long term Dermal  1,2,4-trimethylbenzene  DNEL  DNEL  Short term Inhalation DNEL  Systemic DNEL  DNEL  Short term Inhalation DNEL  Short term Inhalation DNEL  Systemic DNEL  DNEL  Systemic DNEL  Systemic DNEL  DNEL  DNEL  Systemic DNEL		DNEL		100 mg/m <sup>3</sup>	Workers	Local
1,2,4-trimethylbenzene  DNEL Long term Oral  Short term Inhalation  DNEL Short term Inhalation		DNEL		100 mg/m³	Workers	Systemic
DNEL Short term 29.4 mg/m³ General population  DNEL Short term 29.4 mg/m³ General population  DNEL Short term 29.4 mg/m³ General population  DNEL Short term 100 mg/m³ Workers Local		DNEL	Long term Dermal			Systemic
Inhalation  DNEL Short term Inhalation	1,2,4-trimethylbenzene	DNEL	Long term Oral			Systemic
DNEL Short term 100 mg/m³ population Local		DNEL		29.4 mg/m³		Local
Inhalation			Inhalation	-	population	
			Inhalation	-		
Inhalation		DNEL	Short term Inhalation	100 mg/m <sup>3</sup>	Workers	Systemic
DNEL Long term Dermal 16171 mg/ Workers Systemic kg bw/day		DNEL	Long term Dermal		Workers	Systemic

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 9/26

# SECTION 8: Exposure controls/personal protection

	<u> </u>		-			
		DNEL	Long term	29.4 mg/m <sup>3</sup>		Local
			Inhalation		population	
		DNEL	Long term Inhalation	29.4 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Inhalation	100 mg/m <sup>3</sup>	Workers	Local
		DNEL	Long term Inhalation	100 mg/m <sup>3</sup>	Workers	Systemic
		DNEL	Long term Dermal	9512 mg/	General	Systemic
				kg bw/day	population	
	xylene	DNEL	Short term	174 mg/m³	General	Local
			Inhalation		population [Consumers]	
		DNEL	Short term	174 mg/m <sup>3</sup>	General	Systemic
			Inhalation		population	-
					[Consumers]	
		DNEL	Long term Oral	12.5 mg/	General	Systemic
			· ·	kg bw/day	population	
		DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
			Inhalation	· ·	population	
		DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
			Inhalation	-	population	
		DNEL	Long term Dermal	125 mg/kg	General	Systemic
				bw/day	population	
		DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			=	bw/day		*
		DNEL	Long term Inhalation	221 mg/m³	Workers	Local
		DNEL	Long term	221 mg/m³	Workers	Systemic
		DIVLL	Inhalation	221 mg/m	WOIKEIS	Oysternic
		DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		DIVLL	Inhalation	200 mg/m	population	Local
		DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		DIVLL	Inhalation	200 1119/111	population	Cystornio
		DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
			Inhalation	g,		
		DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Systemic
			Inhalation	3		,
	ethylbenzene	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
	,		Inhalation	3		
		DMEL	Short term	884 mg/m <sup>3</sup>	Workers	Systemic
			Inhalation	J		,
		DNEL	Long term Oral	1.6 mg/kg	General	Systemic
				bw/day	population	,
		DNEL	Long term	15 mg/m³	General	Systemic
			Inhalation	-	population	
		DNEL	Long term	77 mg/m³	Workers	Systemic
			Inhalation			
		DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
		DNE	Short torm	bw/day	Markora	Local
		DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	cumana	DNEL	Long term Dermal	1.2 mg/kg	General	Systemic
	cumene	DINCL	Long term Dermal	bw/day	population	Oysterriic
		DNEL	Long term Dermal	15.4 mg/	Workers	Systemic
		DINEL	Long term Dermal	kg bw/day	V V U I N C I S	Cysterriic
		DNEL	Long term	100 mg/m <sup>3</sup>	Workers	Systemic
		DINEL	Inhalation	100 mg/m	4401VG19	Cysternic
		DNEL	Short term	250 mg/m <sup>3</sup>	Workers	Local
		PINEL	Inhalation	200 mg/m	VVOINGIS	Local
		DNEL	Long term Oral	5 mg/kg	General	Systemic
		PINEL	Long term Oral	bw/day	population	Cystoffile
		DNEL	Long term	16.6 mg/m <sup>3</sup>	General	Systemic
		DINCL	Inhalation	10.0 mg/m	population	Cystoffile
			uiuuu011		Population	
ļ			ı			ļ.

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 10/26

# **SECTION 8: Exposure controls/personal protection**

DNEL	Long term Dermal	3.57 mg/	Workers	Systemic
		kg bw/day		-,
DNEL	Long term	25 mg/m³	Workers	Local
	Inhalation			
DNEL	Long term	25 mg/m³	Workers	Systemic
	Inhalation			
DNEL	•	1.9 mg/m³	Workers	Systemic
DAIEI		0.44 / 2	0 .	
DNEL	•	0.14 mg/m <sup>3</sup>		Systemic
DNEI		0 12 mg/		Svotomio
DINEL	Long term Oral	_		Systemic
DNEI	Long term			Local
DIVLL	•	30.3 mg/m		Local
DNEL		56.5 mg/m <sup>3</sup>		Systemic
		5 5 1 1 g, 1 1		- yetee
DNEL		192 mg/m³	Workers	Local
	Inhalation			
DNEL	Long term	192 mg/m³	Workers	Systemic
DNEL	Long term Dermal			Systemic
		,		
DNEL		226 mg/m <sup>3</sup>		Local
DNE		226/3		Constantia
DNEL		226 mg/m <sup>3</sup>		Systemic
DNEI		38/1 ma/ka		Systemic
DINCL	Long term Dermai		VVOINGIS	Оузівіню
DNEL	Short term		Workers	Local
	Inhalation			
DNEL	Short term	384 mg/m³	Workers	Systemic
	Inhalation	-		-
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Inhalation Long term Inhalation DNEL Short term	Inhalation DNEL Long term Inhalation DNEL Short term Inhalation	Inhalation Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Inhalation DNEL Short term Inhalation DNEL Sho

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
Hexamethylene diisocyanate, oligomers	Fresh water	0.127 mg/l	-
	Marine water	0.0127 mg/l	-
	Fresh water sediment	266700 mg/kg dwt	-
	Marine water sediment	26670 mg/kg dwt	-
	Sewage Treatment	38.28 mg/l	-
	Plant		
	Soil	53182 mg/kg dwt	-
n-butyl acetate	Fresh water	0.18 mg/l	-
•	Marine	0.018 mg/l	-
	Sewage Treatment	35.6 mg/l	-
	Plant	J	
	Fresh water sediment	0.981 mg/kg dwt	-
	Marine water sediment	0.0981 mg/kg dwt	-
	Soil	0.0903 mg/kg dwt	-
nesitylene	Fresh water	0.101 mg/l	-
neokylono	Marine water	0.101 mg/l	-
	Sewage Treatment	2.02 mg/l	_
	Plant	2.02 1119/1	
	Fresh water sediment	7.86 mg/kg dwt	_
	Marine water sediment	7.86 mg/kg dwt	_
	Soil	1.34 mg/kg dwt	_
1,2,4-trimethylbenzene	Fresh water	0.12 mg/l	_
1,2,4 (111104191001120110	Marine water	0.12 mg/l	_
	Sewage Treatment	2.41 mg/l	_
	Plant	2.41 mg/i	_
	Fresh water sediment	13.56 mg/kg dwt	-
	Marine water sediment	13.56 mg/kg dwt	_
	Soil	2.34 mg/kg dwt	-
rylene	Fresh water	0.327 mg/l	-

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 11/26

# **SECTION 8: Exposure controls/personal protection**

CONTON O. Exposure controls/p	craonal protectio	711	
	Marine water	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	3.	
	Fresh water sediment	12.46 mg/kg dwt	_
	Marine water sediment	12.46 mg/kg dwt	_
	Soil	2.31 mg/kg dwt	_
ethylbenzene	Fresh water	0.1 mg/l	_
Cutylbelizelie	Marine water	0.01 mg/l	
	Sewage Treatment	9.6 mg/l	
	Plant	9.0 mg/i	-
	Fresh water sediment	13.7 mg/kg dwt	-
	Marine water sediment	1.37 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
cumene	Fresh water	0.035 mg/l	-
	Marine water	0.004 mg/l	-
	Sewage Treatment	200 mg/l	_
	Plant	3.	
	Fresh water sediment	3.22 mg/kg dwt	-
	Marine water sediment	0.322 mg/kg dwt	-
	Soil	0.624 mg/kg dwt	-
naphthalene	Fresh water	2.4 µg/l	-
'	Marine water	2.4 µg/l	-
	Sewage Treatment	2.9 mg/l	_
	Plant	3.	
	Fresh water sediment	67.2 µg/kg dwt	-
	Marine water sediment	67.2 µg/kg dwt	_
	Soil	53.3 µg/kg dwt	-
benzene	Fresh water	1.9 mg/l	Sensitivity Distribution
	Marine water	1.9 mg/l	Sensitivity Distribution
	Sewage Treatment	39 mg/l	Sensitivity Distribution
	Plant	J. S. M. G.	
	Fresh water sediment	33 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	33 mg/kg dwt	Equilibrium Partitioning
	Soil	4.8 mg/kg dwt	Equilibrium Partitioning
toluene	Fresh water	0.68 mg/l	-
1333.3	Marine water	0.68 mg/l	_
	Sewage Treatment	13.61 mg/l	_
	Plant	1.5.51 1119/1	
	Fresh water sediment	16.39 mg/kg dwt	_
	Marine water sediment	16.39 mg/kg dwt	
	Soil	2.89 mg/kg dwt	_
	1		

### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: If inhalation hazards exist, a full-face respirator may be required instead.

### **Skin protection**

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 12/26

# SECTION 8: Exposure controls/personal protection

### **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 butyl rubber polyvinyl alcohol (PVA) Viton® >= 0.7 mm

4 - 8 hours (breakthrough time): Recommended EN 374 neoprene >= 0.7 mm < 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

### **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: full-face mask supplied-air respirator

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

### **Appearance**

Physical state: Liquid.Colour: Colourless.Odour: Fruity.

Odour threshold : Not available.

Melting point/freezing point : Not applicable.

Initial boiling point and boiling : >100°C (>212°F)

range

Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits : Lower: 1.4%

Upper: 7.6%

Flash point : Closed cup: 32°C (89.6°F)

Auto-ignition temperature : 415°C (779°F)

Decomposition temperature : Not applicable.

pH : Not applicable.

Viscosity : Kinematic (40°C): 4 mm²/s

Solubility(ies) :

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not applicable.

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 13/26

### SECTION 9: Physical and chemical properties

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : 1.3 kPa (10 mm Hg) Evaporation rate : 1 (butyl acetate = 1)

Relative density : 1.075

Density : 1.075 g/cm³

Vapour density : 4 [Air = 1]

Explosive properties : Not available.

Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	LC50 Inhalation Dusts and mists	Rat	18500 mg/m³	1 hours
	LC50 Inhalation Dusts and mists	Rat	2.18 mg/l	4 hours
	LD50 Dermal	Rabbit - Male,	>2000 mg/kg	-
		Female		
	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
		Female		
	LD50 Oral	Rat	>5000 mg/kg	-
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Solvent naphtha (petroleum), light arom.	LC50 Inhalation Vapour	Rat	6193 mg/m³	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	3592 mg/kg	-
Trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
mesitylene	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	5000 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapour	Rat	18000 mg/m³	4 hours

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 14/26

# **SECTION 11: Toxicological information**

	LD50 Oral	Rat	5 g/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapour	Rat - Male	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
cumene	LC50 Inhalation Vapour	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Dermal	Rat	>2500 mg/kg	-
	LD50 Oral	Rat	490 mg/kg	-
benzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	28.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-

**Conclusion/Summary** 

: Not available.

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
8-460 HS420 Hardener Slow	N/A	N/A	N/A	14.3	N/A
Hexamethylene diisocyanate, oligomers	N/A	N/A	N/A	11	N/A
n-butyl acetate	10760	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light arom.	3592	N/A	N/A	N/A	N/A
Trimethylbenzene	8970	N/A	N/A	11	N/A
mesitylene	5000	N/A	N/A	24	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	N/A
xylene	4300	1100	5000	29000	N/A
ethylbenzene	3500	12126	N/A	11	N/A
cumene	N/A	N/A	N/A	39	N/A
naphthalene	490	N/A	N/A	N/A	N/A
toluene	N/A	N/A	N/A	28.1	N/A

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene diisocyanate, oligomers	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Solvent naphtha (petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
light arom.				uL	
Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
mesitylene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
,	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	_	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 15/26

# **SECTION 11: Toxicological information**

	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
	Oliin Mandanata innitanat	D-1-1-4		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
nanhthalana	Skin - Mild irritant	Rabbit		mg 405 mg	
naphthalene	Skin - Severe irritant	Rabbit	-	495 mg 24 hours	-
	Skiii - Severe iiritant	Rabbit	-	0.05 MI	-
benzene	Eyes - Moderate irritant	Rabbit	_	88 mg	_
Belizelle	Eyes - Severe irritant	Rabbit	_	24 hours 2	_
	Lyes cevere whan	Rabbit		mg	
	Skin - Mild irritant	Rabbit	_	24 hours 15	_
		. 10.0 .0 .1		mg	
	Skin - Mild irritant	Rat	_	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
		- I		uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Skip Moderate irritant	Rabbit		mg 500 mg	
	Skin - Moderate irritant	Lannir	-	500 mg	-

Conclusion/Summary

: Not available.

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Hexamethylene diisocyanate, oligomers	skin	Guinea pig	Sensitising
ongomoro	skin	Mouse	Sensitising

**Conclusion/Summary** 

: Not available.

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Hexamethylene diisocyanate, oligomers		Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/-	Negative

Conclusion/Summary

: Not available.

Carcinogenicity

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision: 10/25/2023Date of previous issue: 2/7/2023Version: 116/26

# **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract \( \sqrt{irritation} \)
n-butyl acetate	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
mesitylene	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
1,2,3-trimethylbenzene	Category 3	-	Respiratory tract irritation
cumene	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
benzene	Category 1	-	-
toluene	Category 2	-	-

### **Aspiration hazard**

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
Trimethylbenzene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1
benzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

: Not available.

### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May

cause drowsiness or dizziness. May cause respiratory irritation.

**Skin contact**: May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 17/26

# **SECTION 11: Toxicological information**

**Short term exposure** 

Potential immediate

Potential delayed effects

effects

: Not available.

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	Sub-chronic NOAEL Inhalation Dusts and mists	Rat - Male, Female	3.3 mg/m³	90 days; 6 hou <b>rs</b> per day
Conclusion/Summary	· Not available			

**Conclusion/Summary**: Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

# SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate,	Acute EC50 >1000 mg/l	Algae - Scenedesmus	72 hours
oligomers	-	subspicatus	
-	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >100 mg/l	Fish - Danio rerio	96 hours
n-butyl acetate	Acute EC50 397 mg/l	Algae - Selenastrum	72 hours
•	_	capricornutum	
	Acute EC50 44 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Brine shrimp -	48 hours
	_	Artemia salina	
	Acute LC50 18 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEC 200 mg/l	Algae	72 hours
Solvent naphtha (petroleum),	Acute EC50 2.9 mg/l	Algae - Pseudokirchneriella	72 hours
light arom.		subcapitata	
	Acute EC50 3.2 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 9.2 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC >1 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	
Trimethylbenzene	Acute LC50 5600 µg/l Marine water	Crustaceans - Daggerblade	48 hours
ŕ		grass shrimp - Palaemonetes	
		pugio	
mesitylene	Acute LC50 13000 µg/l Marine water	Crustaceans - Dungeness or	48 hours
•		edible crab - Cancer magister -	
		Zoea	
	Acute LC50 12520 μg/l Fresh water	Fish - Goldfish - Carassius	96 hours
		auratus	
	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
	· ·	magna	
1,2,4-trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Scud -	48 hours
, ,		Elasmopus pectenicrus - Adult	
	Acute LC50 7720 µg/l Fresh water	Fish - Fathead minnow -	96 hours
	. •	Pimephales promelas	
xylene	Acute EC50 1 to 10 mg/l	Algae	72 hours
-	Acute EC50 1 to 10 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 8500 μg/l Marine water	Crustaceans - Daggerblade	48 hours
ate of issue/Date of revision	: 10/25/2023 Date of previous issue	: 2/7/2023 Version	:1 18/26

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 18/26

# **SECTION 12: Ecological information**

	1		1
		grass shrimp - <i>Palaemonetes</i> pugio	
	Acute LC50 13400 μg/l Fresh water	Fish - Fathead minnow -	96 hours
	Д	Pimephales promelas	
ethylbenzene	Acute EC50 4900 μg/l Marine water	Algae - Diatom - Skeletonema	72 hours
		costatum	
	Acute EC50 7700 μg/l Marine water	Algae - Diatom - Skeletonema	96 hours
	Acute EC50 6.53 mg/l Marine water	costatum Crustaceans - Brine shrimp -	48 hours
	, touto 2000 o.oo mg/, marine water	Artemia sp Nauplii	10110410
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna - Neonate	
	Acute LC50 4200 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
cumene	Acute EC50 7.4 mg/l Marine water	Crustaceans - Brine shrimp -	48 hours
Samene	/ touto 2000 r. r mg/r marino water	Artemia sp Nauplii	10110410
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna - Neonate	
	Acute LC50 2700 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
naphthalene	Acute EC50 1.6 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
Tiap Turial of To	/ touto 2000 1.0 mg/11 room water	magna - Neonate	i o nodio
	Acute LC50 2350 µg/l Marine water	Crustaceans - Daggerblade	48 hours
		grass shrimp - <i>Palaemonetes</i>	
	Acute LC50 213 μg/l Fresh water	pugio Fish - Crimson-spotted	96 hours
	Acute 2030 213 µg/11 Testi Water	rainbowfish - <i>Melanotaenia</i>	30 Hours
		fluviatilis - Larvae	
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - Fiddler crab -	3 weeks
	Observice NOFO 4.5 mare// Free boundary	Uca pugnax - Adult	CO -1
	Chronic NOEC 1.5 mg/l Fresh water	Fish - Mozambique tilapia - Oreochromis mossambicus	60 days
benzene	Acute EC50 1600000 µg/l Fresh water	Algae - Green algae -	96 hours
		Selenastrum sp.	
	Acute EC50 9.23 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
	Acute LC50 21 mg/l Marine water	magna - Neonate Crustaceans - Brine shrimp -	48 hours
	Acute LC30 21 mg/milline water	Artemia salina	40 110015
	Acute LC50 5.28 ul/L Fresh water	Fish - Pink salmon -	96 hours
		Oncorhynchus gorbuscha - Fry	
	Chronic EC10 >1360 mg/l Fresh water	Algae - Green algae - Desmodesmus subspicatus	96 hours
	Chronic NOEC 98 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
		magna	
	Chronic NOEC 1.5 to 5.4 ul/L Marine	Fish - Striped bass - Morone	4 weeks
	water	saxatilis - Juvenile (Fledgling,	
toluene	Acute EC50 12.5 mg/l	Hatchling, Weanling) Algae	72 hours
tordorio	Acute EC50 >433 ppm Marine water	Algae - Diatom - <i>Skeletonema</i>	96 hours
		costatum	
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Scud -	48 hours
		Gammarus pseudolimnaeus - Adult	
	Acute EC50 3.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 5.5 mg/l	Fish - Oncorhynchus kisutch	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	21 days
		magna	
Conclusion/Summary	· Not available		

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

Date of issue/Date of revision: 10/25/2023Date of previous issue: 2/7/2023Version: 119/26

# **SECTION 12: Ecological information**

Product/ingredient name	Test	Result	Dose	Inoculum
Hexamethylene diisocyanate, oligomers	EU 67/548/EEC ANNEX V, C.4.E.	1 % - Not readily - 28 days	-	-
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-
Solvent naphtha (petroleum), light arom.	-	78 % - Readily - 28 days	-	Fresh water

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene diisocyanate, oligomers	Fresh water 7.7 days, 23°C	-	Not readily
n-butyl acetate Solvent naphtha (petroleum),	-	-	Readily Readily
light arom.	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diisocyanate,	5.54	367.7	Low
oligomers			
n-butyl acetate	2.3	-	Low
Solvent naphtha (petroleum),	-	10 to 2500	High
light arom.			
Trimethylbenzene	3.4 to 3.8	-	Low
mesitylene	3.42	161	Low
1,2,4-trimethylbenzene	3.63	243	Low
xylene	3.12	8.1 to 25.9	Low
1,2,3-trimethylbenzene	3.66	194.98	Low
ethylbenzene	3.6	-	Low
cumene	3.55	35.48	Low
naphthalene	3.4	36.5 to 168	Low
benzene	2.13	11	Low
toluene	2.73	90	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

**Product** 

Date of issue/Date of revision: 10/25/2023Date of previous issue: 2/7/2023Version: 120/26

# **SECTION 13: Disposal considerations**

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

### **Hazardous waste**

Yes.

### **Waste catalogue**

Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### **Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIALPAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint related material
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

### **Additional information**

ADR/RID

: Hazard identification number 30

Limited quantity 5 L

**Special provisions** 163, 640E, 650, 367

Tunnel code (D/E)

**ADN** 

: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

**Special provisions** 163, 367, 640E, 650

**IMDG** 

**Emergency schedules** F-E, \_S-E\_

**IATA** 

Special provisions 163, 223, 367, 955Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355.

Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -

Passenger Aircraft: 10 L. Packaging instructions: Y344.

Special provisions A3, A72, A192

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 21/26

### SECTION 14: Transport information

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

## **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

### Annex XIV - List of substances subject to authorisation

### **Annex XIV**

None of the components are listed.

### **Substances of very high concern**

None of the components are listed.

### **Ozone depleting substances**

Not listed.

### **Prior Informed Consent (PIC)**

Not listed.

### **Persistent Organic Pollutants**

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

### **Seveso Directive**

This product is controlled under the Seveso Directive.

### **Danger criteria**

Category	
P5c	

### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
benzene	UK Occupational Exposure Limits EH40 - WEL	benzene; benzol	Carc.	-

### **EU regulations**

Industrial emissions (integrated pollution prevention and control) - : Not listed

Air

Industrial emissions (integrated pollution

: Not listed

prevention and control) - Water

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 22/26

# **SECTION 15: Regulatory information**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union : Russian Federation inventory: All components are listed or exempted.

Japan : Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.
Thailand : All components are listed or exempted.
Turkey : All components are listed or exempted.

United States : Not determined.

**Viet Nam** : All components are listed or exempted.

15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments are still

assessment required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

### **Full text of abbreviated H statements**

Date of issue/Date of revision : 10/25/2023 Date of previous issue : 2/7/2023 Version : 1 23/26

### **SECTION 16: Other information**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

### **Full text of classifications**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1A	CARCINOGENICITY - Category 1A
Carc. 1B	CARCINOGENICITY - Category 1B
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 1B	GERM CELL MUTAGENICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of printing : 10/31/2023 Date of issue/ Date of : 10/25/2023

revision

Date of previous issue : 2/7/2023

Version : 1

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision: 10/25/2023Date of previous issue: 27/2023Version: 124/26

# SUMI Safe Use of Mixtures Information for end-users



Title : Professional spray painting, near-industrial setting

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

## General description of the process covered

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

# **Operational conditions**

Place of use : Indoor use

## Risk management measures (RMM)

Contributing activity	Process category	Maximum duration	Ventilation		
	(ies)		Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	1 to 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08a	15 minutes to 1 hour	Enhanced (mechanical) room ventilation	5 - 10	
Professional application of coatings and inks by spraying	PROC11	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04	1 to 4 hours	Enhanced (mechanical) room ventilation	Refer to relevant technical standards	
Cleaning	PROC05	1 to 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08a	15 minutes to 1 hour	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Professional application of coatings and inks by spraying	PROC11	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	None	None	
Cleaning	PROC05	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08a	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

CEPE\_PW\_01 Version : 1 Date of issue : 2/1/2017

See chapter 8 of this Safety Data Sheet for specifications.







### **Disclaimer**

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.