SAFETY DATA SHEET



8-214 HS Scratch Resistant Clear Coat

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

1.1 Product identifier

Product name : 8-214 HS Scratch Resistant Clear Coat

Product code : 8-214

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 - Clearcoat

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 : msds@valspar.com

responsible for this SDS

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

Skin Sens. 1, H317 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

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SECTION 2: Hazards identification

Hazard pictograms





Signal word : Warning

Hazard statements : Flammable liquid and vapour.

May cause an allergic skin reaction. 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

articles

Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : 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
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6	≤10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
xylene	REACH #:	<10	Flam. Liq. 3, H226	[1] [2]

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SECTION 3: Composition/information on ingredients

<u>. </u>	·			
	01-2119488216-32 EC: 215-535-7		Acute Tox. 4, H312 Acute Tox. 4, H332	
	CAS: 1330-20-7		Skin Irrit. 2, H315	
	Index: 601-022-00-9		GKIII II II. 2, 11010	
2-methoxy-1-methylethyl acetate	REACH #:	≤3	Flam. Liq. 3, H226	[1] [2]
2 metroxy i metryretryr doctate	01-2119475791-29	-0	STOT SE 3, H336	['][~]
	EC: 203-603-9		0101020,11000	
	CAS: 108-65-6			
	Index: 607-195-00-7			
ethylbenzene	REACH #:	≤3	Flam. Liq. 2, H225	[1] [2]
5,1.55255	01-2119489370-35		Acute Tox. 4, H332	[.,][-]
	EC: 202-849-4		STOT RE 2, H373	
	CAS: 100-41-4		(hearing organs)	
	Index: 601-023-00-4		Asp. Tox. 1, H304	
2-butoxyethyl acetate	REACH #:	<1	Acute Tox. 4, H312	[1] [2]
	01-2119475112-47		Acute Tox. 4, H332	1
	EC: 203-933-3		,	
	CAS: 112-07-2			
	Index: 607-038-00-2			
Poly(oxy-1,2-ethanediyl), α-[3-[3-	REACH #:	<1	Skin Sens. 1A, H317	[1]
(2H-benzotriazol-2-yl)-5-	01-0000015075-76		Aquatic Chronic 2,	-
(1,1-dimethylethyl)	CAS: 104810-48-2		H411	
-4-hydroxyphenyl]-1-oxopropyl]-ω-				
hydroxy-				
bis(1,2,2,6,6-pentamethyl-	REACH #:	≤0.73	Skin Sens. 1A, H317	[1]
4-piperidyl) sebacate	01-2119537297-32		Repr. 2, H361	
	EC: 255-437-1		Aquatic Acute 1, H400	
	CAS: 41556-26-7		(M=1)	
			Aquatic Chronic 1,	
			H410 (M=1)	
Poly(oxy-1,2-ethanediyl), α-[3-[3-	REACH #:	<1	Skin Sens. 1A, H317	[1]
(2H-benzotriazol-2-yl)-5-	01-0000015075-76		Aquatic Chronic 2,	
(1,1-dimethylethyl)	CAS: 104810-47-1		H411	
-4-hydroxyphenyl]-1-oxopropyl]-ω-				
[3-[3-(2H-benzotriazol-2-yl)-5-				
(1,1-dimethylethyl)				
-4-hydroxyphenyl]-1-oxopropoxy]-	DEACH #	44	Flama Lin 2 LI226	[41 [0]
1-methoxy-2-propanol	REACH #:	<1	Flam. Liq. 3, H226	[1] [2]
	01-2119457435-35		STOT SE 3, H336	
	EC: 203-539-1 CAS: 107-98-2			
	Index: 603-064-00-3			
mothyl 1 2 2 6 6 pontamothyl	EC: 280-060-4	≤0.24	Skin Sens. 1A, H317	[4]
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	CAS: 82919-37-7	≥0.24	Repr. 2, H361	[1]
4-piperidyi sebacate	CAS. 62919-37-7		Aquatic Acute 1, H400	
			(M=1)	
			Aquatic Chronic 1,	
			H410 (M=1)	
methyl methacrylate	REACH #:	≤0.1	Flam. Liq. 2, H225	[1] [2]
Instry: motifact yield	01-2119452498-28		Skin Irrit. 2, H315	[[][]
	EC: 201-297-1		Skin Sens. 1, H317	
	CAS: 80-62-6		STOT SE 3, H335	
	Index: 607-035-00-6		2.3.323,1000	
toluene	REACH #:	≤0.1	Flam. Liq. 2, H225	[1] [2]
	01-2119471310-51		Skin Irrit. 2, H315	' ' '-'
	EC: 203-625-9		Repr. 2, H361d	
	CAS: 108-88-3		STOT SE 3, H336	
	Index: 601-021-00-3		STOT RE 2, H373	
			Asp. Tox. 1, H304	
dioctyltin dilaurate	REACH #:	≤0.1	Repr. 1B, H360D	[1] [2]
	01-2119979527-19		STOT RE 1, H372	
	EC: 222-883-3		(immune system)	
	CAS: 3648-18-8			
	Index: 050-031-00-9			
<u> </u>		1	<u> </u>	<u> </u>
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SECTION 3: Composition/information on ingredients

cumene	EC: 202-704-5	<0.1	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	
benzene	REACH #:	<0.1	Flam. Liq. 2, H225	[1] [2]
Delizerie	01-2119447106-44	10.1	Skin Irrit. 2, H315	['][~]
	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	
propylene oxide	EC: 200-879-2	<0.1	Flam. Liq. 1, H224	[1] [2]
	CAS: 75-56-9		Acute Tox. 4, H302	
	Index: 603-055-00-4		Acute Tox. 3, H311	
			Acute Tox. 3, H331	
			Eye Irrit. 2, H319	
			Muta. 1B, H340	
			Carc. 1B, H350	
hydrogen chloride	EC: 231-595-7	<0.1	STOT SE 3, H335 Press. Gas (Comp.),	[1] [2]
liyarogen chloride	CAS: 7647-01-0	\\ \\ \	H280	[1][2]
	Index: 017-002-00-2		Acute Tox. 3, H331	
	111dox. 017 002 00 2		Skin Corr. 1A, H314	
			Eye Dam. 1, H318	
formaldehyde	REACH #:	<0.1	Acute Tox. 3, H301	[1] [2]
	01-2119488953-20		Acute Tox. 3, H311	
	EC: 200-001-8		Acute Tox. 2, H330	
	CAS: 50-00-0		Skin Corr. 1B, H314	
	Index: 605-001-00-5		Eye Dam. 1, H318	
			Skin Sens. 1, H317	
			Muta. 2, H341	
			Carc. 1B, H350 STOT SE 3, H335	
ethylene oxide	EC: 200-849-9	<0.1	Flam. Gas 1A, H220	[1] [2]
etriylerie oxide	CAS: 75-21-8	\\0.1	Press. Gas (Comp.),	[1] [2]
	Index: 603-023-00-X		H280	
	111d5X: 000 020 00 X		Acute Tox. 3, H301	
			Acute Tox. 3, H331	
			Skin Corr. 1, H314	
			Eye Dam. 1, H318	
			Muta. 1B, H340	
			Carc. 1B, H350	
			Repr. 1B, H360Fd	
			STOT SE 3, H335	
			STOT SE 3, H336	
			STOT RE 1, H372	
			(nervous system)	
			See Section 16 for	
			the full text of the H	
			statements declared above.	
			anove.	

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.

Type

- [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.

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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.

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 : No specific data.

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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 : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

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

media

: Do not use water jet.

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SECTION 5: Firefighting measures

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

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

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

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 noncombustible, 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.

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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.
solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values				
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.				
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,				
	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.				
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed				
	through skin.				
	STEL: 548 mg/m³ 15 minutes.				

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ethylene oxide

SECTION 8: Exposure controls/personal protection

TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed ethylbenzene through skin. STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m³ 8 hours. TWA: 100 ppm 8 hours. 2-butoxyethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 20 ppm 8 hours. STEL: 332 mg/m³ 15 minutes. TWA: 133 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 1-methoxy-2-propanol through skin. STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. methyl methacrylate EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 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. dioctyltin dilaurate EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin compounds, organic, except cyhexatin (ISO) as Sn] Absorbed through skin. STEL: 0.2 mg/m³, (as Sn) 15 minutes. TWA: 0.1 mg/m³, (as Sn) 8 hours. 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/m³ 8 hours. TWA: 25 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed benzene through skin. TWA: 1 ppm 8 hours. TWA: 3.25 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). propylene oxide TWA: 1 ppm 8 hours. TWA: 2.4 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). hydrogen chloride STEL: 8 mg/m³ 15 minutes. Form: (gas and aerosol mists) STEL: 5 ppm 15 minutes. Form: (gas and aerosol mists) TWA: 2 mg/m³ 8 hours. Form: (gas and aerosol mists) TWA: 1 ppm 8 hours. Form: (gas and aerosol mists) formaldehyde EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2.5 mg/m3 15 minutes. STEL: 2 ppm 15 minutes.

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TWA: 1 ppm 8 hours. TWA: 1.8 mg/m³ 8 hours.

through skin.

TWA: 2.5 mg/m³ 8 hours. TWA: 2 ppm 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

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	Type	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Inhalation	35.7 mg/m³	population	Local
	DNEL	Short term Inhalation	300 mg/m³	[Consumers] General population	Local
	DNEL	Short term Dermal	6 mg/kg bw/day	[Consumers] 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 ³	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	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 ³	population	Local
	DNEL	Inhalation Long term	48 mg/m³	population Workers	Systemic
	DNEL	Inhalation Short term	300 mg/m ³	General	Local
	DNEL	Inhalation Short term	300 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	300 mg/m ³	population Workers	Local
	DNEL	Inhalation Short term	600 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	600 mg/m ³	Workers	Systemic
Solvent naphtha (petroleum), light	DNEL	Inhalation Long term Dermal	11 mg/kg bw/day	General population	Systemic
arom.	DNEL	Long term Inhalation	32 mg/m³	General population	Systemic

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	DNEL	Long term Oral	11 mg/kg	General	Systemic
	DINEL	Long term Oral	bw/day	population	Systemic
	DNEL	Long term Dermal	25 mg/kg	Workers	Systemic
	DIVEL	Long term Dermai	bw/day	WOIKEIS	Systemic
	DNEL	Long term	150 mg/m ³	Workers	Systemic
	DIVEL		150 mg/m	Workers	Systemic
	DNE	Inhalation	0.44 / 3	Camanal	Curatamaia
	DNEL	Long term	0.41 mg/m ³		Systemic
	DATE	Inhalation	40 / 3	population	0 1 .
	DNEL	Long term	1.9 mg/m ³	Workers	Systemic
	DATE	Inhalation	470.57	0 1	
	DNEL	Long term	178.57 mg/	General	Local
	5	Inhalation	m³	population	
	DNEL	Short term	640 mg/m ³	General	Local
	5	Inhalation		population	
	DNEL	Long term	837.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³		
	DNEL	Short term	1152 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	1286.4 mg/	Workers	Systemic
		Inhalation	m³	_	
xylene	DNEL	Short term	174 mg/m³	General	Local
		Inhalation		population	
				[Consumers]	
	DNEL	Short term	174 mg/m³	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 ³	General	Local
		Inhalation	Ü	population	
	DNEL	Long term	65.3 mg/m ³		Systemic
		Inhalation	3 .	population	,
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
		3	bw/day	population	,
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
		3	bw/day		,
	DNEL	Long term	221 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	221 mg/m ³	Workers	Systemic
	0.122	Inhalation	g,	Workers.	Cyclonia
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	- , 5.5.1.110
	DNEL	Short term	442 mg/m³	Workers	Local
	5116	Inhalation	<u>~</u> g/	.7011.010	_55041
	DNEL	Short term	442 mg/m³	Workers	Systemic
		Inhalation	++2 mg/m	11011013	Systemio
2-methoxy-1-methylethyl acetate	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
2 monoxy-1-memylemyl acetate	DIVLL	Long tolli Dellial	bw/day	VVOINGIS	Cystoffile
	DNEL	Long term	33 mg/m ³	General	Local
	DIVLL	Inhalation	oo mg/m	population	Local
	DNEL	Long term	33 mg/m³	General	Systemic
	DIVEL	Inhalation	oo mg/m	population	Cysternic
	DNEI		36 ma/ka	General	Systemic
	DNEL	Long term Oral	36 mg/kg		Systemic
	DNE	l ong torm	bw/day	population	Cuntomia
	DNEL	Long term	275 mg/m ³	Workers	Systemic
	DATE	Inhalation	220 "	Camanal	Cumta me ! -
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
	D. 1.	Ob 4.	bw/day	population	
	DNEL	Short term	550 mg/m ³	Workers	Local
		Inhalation			
l	1				<u> </u>

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DNEL Long te	erm Dermal	796 mg/kg	Workers	Systemic
		bw/day		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ethylbenzene DMEL Long te		442 mg/m³	Workers	Local
DMEL Short to	erm 8	884 mg/m³	Workers	Systemic
	erm Oral	1.6 mg/kg bw/day	General population	Systemic
DNEL Long te	erm ′	15 mg/m³	General population	Systemic
DNEL Long te	erm 7	77 mg/m³	Workers	Systemic
	erm Dermal	180 mg/kg bw/day	Workers	Systemic
DNEL Short to	erm 2	•	Workers	Local
2-butoxyethyl acetate DNEL Short to Inhalati	erm 4	_	General population	Systemic
DNEL Short to	erm 7		Workers	Systemic
DNEL Long te	erm 8	80 mg/m³	General population	Systemic
DNEL Long te	erm ′		Workers	Systemic
DNEL Short to	erm 2		General population	Local
	erm Oral 8	8.6 mg/kg	General population	Systemic
DNEL Short to	erm Oral	36 mg/kg	General population	Systemic
DNEL Short to	erm Dermal	72 mg/kg	General population	Systemic
DNEL Long te	erm Dermal	102 mg/kg	General population	Systemic
DNEL Short to	erm Dermal	120 mg/kg bw/day	Workers	Systemic
DNEL Long te	erm Dermal		Workers	Systemic
DNEL Short to	erm 3	333 mg/m³	Workers	Local
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]	erm (0.35 mg/m³	Workers	Systemic
-1-oxopropyl]-ω-hydroxy-				
	ŀ	bw/day	Workers	Systemic
DNEL Long te			General population [Consumers]	Systemic
DNEL Long te		0.25 mg/ kg bw/day	General population	Systemic
DNEL Long te		0.025 mg/	[Consumers] General population [Consumers]	Systemic
DNEL Long te			General population	Systemic
DNEL Long te	rm Dermal (0.025 mg/	General population	Systemic
DNEL Long te	erm (General population	Systemic
	rm Dermal (Workers	Systemic
DNEL Long te		0.35 mg/m ³	Workers	Systemic

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Lo Holt of Exposure conti	ою, р	oroonal proto	50011		
		Inhalation			
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	DNEL	Long term Inhalation	3.53 mg/m ³	Workers	Systemic
Sobdoute	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	[Consumers] General population	Systemic
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]	DNEL	Long term Inhalation	0.35 mg/m³	[Consumers] Workers	Systemic
-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-					
(1,1-dimethylethyl)-4-hydroxyphenyl] -1-oxopropoxy]-					
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.085 mg/ m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.025 mg/ kg bw/day	General population	Systemic
1-methoxy-2-propanol	DNEL	Long term Dermal	51 mg/kg bw/day	[Consumers] Workers	Systemic
	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Systemic
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	DNEL	Long term Inhalation	3.53 mg/m³		Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population [Consumers]	Systemic
methyl methacrylate	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local
Inotity inotitation yield	DNEL	Short term Dermal	1.5 mg/cm ²		Local
	DNEL	Long term Dermal	1.5 mg/cm ²	General	Local
	PINEL	Long term Dermal	1.5 mg/cm	General	Local
		l .			

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				population	
				[Consumers]	
	DNEL	Short term Dermal	1.5 mg/cm ²	General	Local
			J	population	
				[Consumers]	
	DNEL	Short term Dermal	1.5 mg/cm ²	General	Local
	DIVLL	Official Definal	1.5 mg/cm	population	Local
	DNIEL	Land tawn Dawn al	1 5/2		Land
	DNEL	Long term Dermal	1.5 mg/cm ²	General	Local
				population	
	DNEL	Short term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm ²		Local
	DNEL	Long term Oral	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
		•	bw/day	population	
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
		3	kg bw/day		,
	DNEL	Long term	74.3 mg/m ³	General	Systemic
	DIVLL	Inhalation	7 4.5 mg/m	population	Oysternio
	DAIEI		404/3		1 1
	DNEL	Long term	104 mg/m ³	General	Local
	D	Inhalation	000 : 5	population	
	DNEL	Short term	208 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	348.4 mg/	Workers	Systemic
		Inhalation	m³		-,
	DNEL	Short term	416 mg/m ³	Workers	Local
	DIVLL	Inhalation	4 10 mg/m	WOIKEIS	Local
tala.a	DNIEL		0.40	Camanal	Cuetamia
toluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	56.5 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	56.5 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	192 mg/m ³	Workers	Local
		Inhalation	3		
	DNEL	Long term	192 mg/m³	Workers	Systemic
	DIVLL	Inhalation	102 1119/111	WOIKOIS	Cysternio
	DNEL		226 mg/kg	General	Cuotomio
	DINEL	Long term Dermal			Systemic
	DATE	01 11	bw/day	population	
	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	384 mg/m ³	Workers	Local
	- 	Inhalation	· · · · · · · · · · · · · · · · · · ·	· - -	
	DNEL	Short term	384 mg/m³	Workers	Systemic
	DINEL		Jon my/m	4401VG19	Оузіснію
alle eardate allere (D	Inhalation	0.0005	0	0
dioctyltin dilaurate	DNEL	Long term Oral	0.0005 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.0009 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Long term	0.0035 mg/	Workers	Systemic
		Inhalation	m³		
cumene	DNEL	Long term Dermal	1.2 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term Dermal	15.4 mg/	Workers	Systemic
	DINEL	Long term Demial	kg bw/day	4401VG19	Cysterrife
	ראבי	l ong torm		Morkora	Cuotomio
	DNEL	Long term	100 mg/m ³	Workers	Systemic
	D	Inhalation	050 / 3	\\\	
	DNEL	Short term	250 mg/m ³	Workers	Local
		1			

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•	•	T			
	DAIEI	Inhalation	- "	0 1	
	DNEL	Long term Oral	5 mg/kg	General	Systemic
	DAIEI		bw/day	population	0 1 .
	DNEL	Long term	16.6 mg/m ³	General	Systemic
	DAIEI	Inhalation	40 / 3	population	0
benzene	DNEL	Long term	1.9 mg/m ³	Workers	Systemic
	DAIEL	Inhalation	0.44	0	0
	DNEL	Long term	0.14 mg/m ³		Systemic
propulano ovido	DNEL	Inhalation Short term	170 m a/m 3	population General	Local
propylene oxide	DINEL		170 mg/m ³		Local
	DNEL	Inhalation	0.6 m a/m3	population General	Local
	DINEL	Long term Inhalation	0.6 mg/m ³	population	Local
	DNEL	Long term	2.4 mg/m³	Workers	Local
	DIVLL	Inhalation	2.4 mg/m	VVOIREIS	Local
	DNEL	Short term	170 mg/m³	Workers	Local
	DIVLL	Inhalation	170 mg/m	VVOIKCIS	Local
hydrogen chloride	DNEL	Long term	8 mg/m³	Workers	Local
Trydrogon omendo	DIVLL	Inhalation	o mg/m	VVOIKOIO	Local
	DNEL	Short term	15 mg/m³	Workers	Local
	,	Inhalation			
	DNEL	Long term	8 mg/m³	General	Local
	,	Inhalation	- ····g/····	population	
	DNEL	Short term	15 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	8 mg/m³	General	Local
		Inhalation	3	population	
	DNEL	Long term	8 mg/m³	Workers	Local
		Inhalation	Ü		
	DNEL	Short term	15 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	15 mg/m³	Workers	Local
		Inhalation			
formaldehyde	DNEL	Long term Dermal	0.037 mg/	Workers	Local
			cm ²		
	DNEL	Long term Dermal	0.012 mg/	General	Local
			cm ²	population	
				[Consumers]	
	DNEL	Long term Dermal	12 ng/cm²	General	Local
				population	
	DNEL	Long term Dermal	37 ng/cm ²	Workers	Local
	DNEL	Long term	0.1 mg/m ³	General	Local
	DNE	Inhalation	0.075	population	1 1
	DNEL	Long term	0.375 mg/	Workers	Local
	חארי	Inhalation	m ³	Morkoro	Local
	DNEL	Short term	0.75 mg/m ³	vvorkers	Local
	DNEL	Inhalation	2.2 ma/m3	Conoral	Systemia
	DINEL	Long term Inhalation	3.2 mg/m ³	General	Systemic
	DNEL	Long term Oral	1.1 mg/kg	population General	Systemic
	DINCL	Long term Oral	4.1 mg/kg bw/day	population	Oyaleiiilo
	DNEL	Long term	9 mg/m ³	Workers	Systemic
	DINEL	Inhalation	J mg/m	VVOINGIS	Оузісініс
	DNEL	Long term Dermal	102 mg/kg	General	Systemic
	DINCL	Long tolli Delillal	bw/day	population	Systemio
	DNEL	Long term Dermal	240 mg/kg	Workers	Systemic
	J. 1LL		bw/day		- , 5.5.7.110
ethylene oxide	DMEL	Long term	1.8 mg/m ³	Workers	Local
		Inhalation			
	DMEL	Long term	1.8 mg/m³	Workers	Systemic
		Inhalation	g	<u>-</u>	,
	DNEL	Short term	10 mg/m³	Workers	Systemic
		Inhalation	J		

PNECs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value	Method Detail
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine Sewage Treatment	0.018 mg/l 35.6 mg/l	-
	Plant	33.0 mg/i	-
	Fresh water sediment	0.981 mg/kg dwt	-
	Marine water sediment	0.0981 mg/kg dwt	-
	Soil	0.0903 mg/kg dwt	-
xylene	Fresh water	0.327 mg/l	-
	Marine water Sewage Treatment	0.327 mg/l 6.58 mg/l	_
	Plant	0.00 1119/1	
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
2-methoxy-1-methylethyl acetate	Fresh water Marine	0.635 mg/l 0.0635 mg/l	-
	Sewage Treatment	100 mg/l	-
	Plant	100 mg/1	
	Fresh water sediment	3.29 mg/kg dwt	-
	Marine water sediment	0.329 mg/kg dwt	-
athydb an zon o	Soil Freeh water	0.29 mg/kg dwt	-
ethylbenzene	Fresh water Marine water	0.1 mg/l 0.01 mg/l	-
	Sewage Treatment	9.6 mg/l	_
	Plant	J. 3.	
	Fresh water sediment	13.7 mg/kg dwt	-
	Marine water sediment	1.37 mg/kg dwt	-
2 hutowothyl apotato	Soil Fresh water	2.68 mg/kg dwt	-
2-butoxyethyl acetate	Marine water	0.304 mg/l 0.0304 mg/l	_
	Sewage Treatment	90 mg/l	_
	Plant	J. J.	
	Fresh water sediment	2.03 mg/kg dwt	-
	Marine water sediment	0.203 mg/kg dwt	-
	Soil Secondary Poisoning	0.415 mg/kg dwt 60 mg/kg	-
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	Fresh water	0.0023 mg/l	-
benzotriazol-2-yl)-5-(1,1-dimethylethyl)		0.00 <u>1</u> 0g,.	
-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-			
	Marine water	0.00023 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant Fresh water sediment	3.06 mg/kg dwt	_
	Marine water sediment	0.306 mg/kg dwt	_
	Soil	2 mg/kg dwt	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	Fresh water	0.0022 mg/l	-
sebacate	Marina	0.00000	
	Marine water Sewage Treatment	0.00022 mg/l 1 mg/l	-
	Plant	1 1119/1	-
	Fresh water sediment	1.05 mg/kg dwt	-
	Marine water sediment	0.11 mg/kg dwt	-
D-I./ 4.0 -44	Soil	0.21 mg/kg dwt	-
Poly(oxy-1,2-ethanediyl), α -[3-[3-(2H-	Fresh water	0.0023 mg/l	-
benzotriazol-2-yl)-5-(1,1-dimethylethyl) -4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-			
benzotriazol-2-yl)-5-(1,1-dimethylethyl)			
-4-hydroxyphenyl]-1-oxopropoxy]-			
	Marine water	0.00023 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant Fresh water sediment	3.06 mg/kg dwt	_
	Marine water sediment	0.306 mg/kg dwt	-
1	1	1	<u> </u>

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	Soil	2 mg/kg dwt	-
1-methoxy-2-propanol	Fresh water	10 mg/l	_
	Marine water	1 mg/l	-
	Sewage Treatment	100 mg/l	_
	Plant		
	Fresh water sediment	52.3 mg/kg dwt	_
	Marine water sediment	5.2 mg/kg dwt	-
	Soil	4.59 mg/kg dwt	-
methyl 1,2,2,6,6-pentamethyl-4-piperidyl	Fresh water	0.0022 mg/l	_
sebacate		0.00==g,.	
	Marine water	0.00022 mg/l	-
	Sewage Treatment	1 mg/l	-
	Plant		
	Fresh water sediment	1.05 mg/kg dwt	-
	Marine water sediment	0.11 mg/kg dwt	-
	Soil	0.21 mg/kg dwt	_
methyl methacrylate	Fresh water	0.94 mg/l	Assessment Factors
	Marine water	0.94 mg/l	Assessment Factors
	Sewage Treatment	10 mg/l	Assessment Factors
	Plant	. 59/1	55555ont i dotoro
	Fresh water sediment	5.74 mg/kg dwt	Equilibrium Partitioning
	Soil	1.47 mg/kg dwt	Equilibrium Partitioning
toluene	Fresh water	0.68 mg/l	-
10120110	Marine water	0.68 mg/l	_
	Sewage Treatment	13.61 mg/l	_
	Plant	10.01.11.9/	
	Fresh water sediment	16.39 mg/kg dwt	_
	Marine water sediment	16.39 mg/kg dwt	_
	Soil	2.89 mg/kg dwt	_
dioctyltin dilaurate	Fresh water	0.002 µg/l	-
	Marine water	0.0002 µg/l	_
	Sewage Treatment	100 mg/l	-
	Plant	J	
	Fresh water sediment	0.028 mg/kg dwt	-
	Marine water sediment	0.0028 mg/kg dwt	-
	Soil	0.006 mg/kg dwt	-
	Secondary Poisoning	0.02 mg/kg	-
cumene	Fresh water	0.035 mg/l	-
	Marine water	0.004 mg/l	-
	Sewage Treatment	200 mg/l	-
	Plant		
	Fresh water sediment	3.22 mg/kg dwt	-
	Marine water sediment	0.322 mg/kg dwt	-
	Soil	0.624 mg/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		
	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
formaldehyde	Fresh water	0.44 mg/l	Sensitivity Distribution
	Marine water	0.44 mg/l	Assessment Factors
	Sewage Treatment	0.19 mg/l	Assessment Factors
	Plant		
	Fresh water sediment	2.3 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	2.3 mg/kg dwt	Equilibrium Partitioning
	Soil	0.2 mg/kg dwt	Equilibrium Partitioning
		ı	

8.2 Exposure controls

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SECTION 8: Exposure controls/personal protection

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: chemical splash goggles and/or face shield.

Skin 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 polyvinyl alcohol (PVA) Viton® >= 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: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D

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.

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SECTION 9: Physical and chemical properties

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

range

Flammability (solid, gas) : Not available. Upper/lower flammability or : Lower: 0.8% **explosive limits** Upper: 7.6%

: Closed cup: 30°C (86°F) Flash point

Auto-ignition temperature : 415°C (779°F) **Decomposition temperature** : Not applicable. pН : Not applicable.

Viscosity : Kinematic (40°C): >20.5 mm²/s

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not applicable.

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : 1.5 kPa (11.25 mm Hg) **Evaporation rate** : 1 (butyl acetate = 1)

Relative density : 1.001

Density : 1.001 g/cm³ Vapour density : 4 [Air = 1] **Explosive properties** : Not available. : Not available. **Oxidising properties**

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.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	LC50 Inhalation Vapour	Rat	6193 mg/m³	4 hours
(petroleum), light arom.	'			
(1),	LD50 Dermal	Rabbit	>3160 mg/kg	_
	LD50 Oral	Rat	3592 mg/kg	_
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
Aylono	LC50 Inhalation Vapour	Rat - Male	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	- 110013
	LD50 Oral	Rat	4300 mg/kg	_
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	
acetate	LD30 Deliliai	Ιλαυυίι	-5 g/kg	_
acetate	I DEO Dormal	Det	> E000 mg/kg	
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	1880 mg/kg	-
Poly(oxy-1,2-ethanediyl), α-	LD50 Dermal	Rat	>2000 mg/kg	-
[3-[3-(2H-benzotriazol-2-yl)				
-5-(1,1-dimethylethyl)				
-4-hydroxyphenyl]				
-1-oxopropyl]-ω-hydroxy-				
1 131 3 3	LD50 Oral	Rat	>5000 mg/kg	_
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	>3230 mg/kg	_
4-piperidyl) sebacate	2500 0.4.	l tot	ozoo mg/kg	
Poly(oxy-1,2-ethanediyl), α-	LD50 Dermal	Rat	>2000 mg/kg	
[3-[3-(2H-benzotriazol-2-yl)	LD30 Deliliai	Itat	2000 mg/kg	
-5-(1,1-dimethylethyl)				
-4-hydroxyphenyl]				
-1-oxopropyl]-ω-[3-[3-(2H-				
benzotriazol-2-yl)-5-				
(1,1-dimethylethyl)				
-4-hydroxyphenyl]				
-1-oxopropoxy]-				
	LD50 Oral	Rat	>5000 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	4016 mg/kg	-
methyl	LD50 Oral	Rat	>3230 mg/kg	-
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
methyl methacrylate	LC50 Inhalation Vapour	Rat - Male,	29.8 mg/l	4 hours
		Female		
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 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	-
dioctyltin dilaurate	LD50 Oral	Rat	6450 mg/kg	_
cumene	LC50 Inhalation Vapour	Rat	39000 mg/m ³	4 hours
- 54.110110	LD50 Oral	Rat	1400 mg/kg	
benzene	LD50 Oral	Rabbit	>5000 mg/kg	_
DONZENE	LD50 Definal	Rat		_
propulopo evido			930 mg/kg	4 hours
propylene oxide	LC50 Inhalation Gas.	Rat	4000 ppm	4 hours
	LD50 Oral	Rat Rat	380 mg/kg 250 ppm	- 4 hours
	III I : k II Inhalation ('aa	I Pat	LZ50 nnm	L/L houre
formaldehyde	LC50 Inhalation Gas. LD50 Dermal	Rabbit	270 mg/kg	4 110015

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	LD50 Oral	Rat	100 mg/kg	-	
ethylene oxide	LC50 Inhalation Gas.	Rat	800 ppm	4 hours	
	LD50 Oral	Rat	72 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)
8-214 HS Scratch Resistant Clear Coat	N/A	14767.0	67122.6	806.4	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
xylene	4300	1100	5000	29000	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
ethylbenzene	3500	12126	N/A	11	N/A
2-butoxyethyl acetate	N/A	1500	N/A	11	N/A
1-methoxy-2-propanol	4016	N/A	N/A	N/A	N/A
methyl methacrylate	7872	N/A	N/A	29.8	N/A
toluene	N/A	N/A	N/A	28.1	N/A
dioctyltin dilaurate	6450	N/A	N/A	N/A	N/A
cumene	N/A	N/A	N/A	39	N/A
propylene oxide	380	300	N/A	3	N/A
hydrogen chloride	N/A	N/A	N/A	3	N/A
formaldehyde	100	270	250	N/A	N/A
ethylene oxide	100	N/A	700	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	
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 %	_
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
,	Skin - Mild irritant	Rabbit	-	24 hours 15	_
				mg	
2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
, ,	,			mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
, , ,	,			mg	
	Skin - Mild irritant	Rabbit	_	500 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	_
		1.9		uL	
	Skin - Mild irritant	Rabbit	_	435 mg	_
	Skin - Moderate irritant	Rabbit	_	24 hours 20	_
				mg	
	Skin - Moderate irritant	Rabbit	_	500 mg	_
cumene	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
-	'			mg	
				9	
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Skin - Mild irritant Rabbit - 24 hours 10 mg -		<u> </u>				
Skin - Moderate irritant Pabbit Skin - Moderate irritant Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Eyes		Eyes - Mild irritant	Rabbit	-	86 mg	-
Skin - Moderate irritant Denzene Eyes - Moderate irritant Eyes - Severe irritant Rabbit Rabbit - 24 hours 2 - mg Skin - Mild irritant Rabbit - 24 hours 15 - mg Skin - Moderate irritant Rabbit - 24 hours 20 - mg Eyes - Moderate irritant Rabbit - 24 hours 20 - mg Eyes - Severe irritant Rabbit - 24 hours 20 - mg Eyes - Severe irritant Rabbit - 20 mg - Skin - Moderate irritant Rabbit - 415 mg - 415 mg - 540 mg - 550 ug Eyes - Mild irritant Rabbit - 0.5 minutes 5 - mg Skin - Mild irritant Human - 24 hours 4 % - 24 hours 1 % - 24 hours 1 % - 24 hours 1 % - 24 hours 2 %		Skin - Mild irritant	Rabbit	-	24 hours 10	-
Eyes - Moderate irritant Rabbit - 24 hours 2 - 24 hours 3 - 24 hours 4 - 24 hours 5						
Eyes - Moderate irritant Rabbit - 88 mg - 24 hours 2 - mg mg		Skin - Moderate irritant	Rabbit	-	24 hours 100	-
Eyes - Severe irritant Rabbit - 24 hours 2 - mg 24 hours 15 - mg 24 hours 20 - mg - 25 hours 20 - mg - 26 hours 20 - mg - 27 hours 20 - mg - 28 hours 20 - mg - 29 hours 20 - mg - 20 hours 20 - hours 20 hours					mg	
Skin - Mild irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Rabbit Ra	benzene	Eyes - Moderate irritant		-		-
Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Eyes - Moderate irritant Skin - Severe irritant Skin - Severe irritant Skin - Severe irritant Skin - Mild irritant Eyes - Mild irritant Skin - Mild irritant Eyes - Mild irritant Skin - Moderate irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant Eyes - Severe irritant Skin - Mild irritant Eyes - Severe irritant Skin - Mild irritant Rabbit Skin - Mild irritant Rabbit Skin - Mild irritant Skin - Moderate irritant Skin - Severe irritant Rabbit Skin - Severe irritant Skin - Severe irritant Skin - Severe irritant Skin - Severe irritant Rabbit - 0.01 % - 0.01 % - 0.01 % - 0.08 % - 0.08 %		Eyes - Severe irritant	Rabbit	-	24 hours 2	-
Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant Pabbit Skin - Moderate irritant Skin - Moderate irritant Eyes - Moderate irritant Skin - Moderate irritant Skin - Moderate irritant Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant Skin - Severe irritant Skin - Mild irritant Skin - Moderate irritant Skin - Severe irritant Skin -					mg	
Skin - Mild irritant Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant Skin - Severe irritant Skin - Severe irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant Skin - Severe irr		Skin - Mild irritant	Rabbit	-	24 hours 15	-
Skin - Moderate irritant Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Moderate irritant Eyes - Severe irritant Skin - Moderate irritant Skin - Moderate irritant Skin - Moderate irritant Rabbit Rabbit - 20 mg - 20 mg - 415 mg - 6 minutes 50 - mg Rabbit - 0.5 minutes 5 - mg Skin - Mild irritant Eyes - Mild irritant Human - 24 hours 4 % - 6 minutes 1 - ppm Eyes - Severe irritant Eyes - Severe irritant Rabbit - 750 ug Eyes - Severe irritant Skin - Mild irritant Human - 72 hours 150 - ug I Skin - Mild irritant Rabbit - 340 mg - 7540 mg Skin - Mild irritant Rabbit Skin - Moderate irritant Rabbit - 415 mg - 750 ug						
Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant Skin - Mild irritant Eyes - Severe irri		Skin - Mild irritant	Rat	-	8 hours 60 uL	-
Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant Skin - Mild irritant Eyes - Severe irritant		Skin - Moderate irritant	Rabbit	-	24 hours 20	-
Eyes - Severe irritant Skin - Moderate irritant Skin - Severe irritant Skin - Mild irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Eyes -					mg	
Eyes - Severe irritant Skin - Moderate irritant Skin - Severe irritant Rabbit	propylene oxide	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant Rabbit						
Skin - Severe irritant Rabbit				-		-
Eyes - Mild irritant Rabbit -				-		-
Skin - Mild irritant Skin - Mild irritant Eyes - Mild irritant Human Human Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Mild irritant Eyes -		Skin - Severe irritant	Rabbit	-	6 minutes 50	-
Skin - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Eye						
Skin - Mild irritant Eyes - Severe irritant Eyes - Se	hydrogen chloride	Eyes - Mild irritant	Rabbit	-	0.5 minutes 5	-
Formaldehyde Eyes - Mild irritant Eyes - Severe irri						
Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant Rabbit - 24 hours 750 - ug - 750 ug - 72 hours 150 - ug I Rabbit - 540 mg - 24 hours 50 - mg Skin - Severe irritant Human - 0.01 % - 0.8 %				-		-
Eyes - Severe irritant Eyes -	formaldehyde	Eyes - Mild irritant	Human	-		-
Eyes - Severe irritant Rabbit - 750 ug - 750 ug I Skin - Mild irritant Rabbit - 540 mg - 24 hours 50 - mg Skin - Severe irritant Rabbit - 0.01 % - Skin - Severe irritant Rabbit - 0.8 % -						
Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Skin - Severe irritant		Eyes - Severe irritant	Rabbit	-		-
Skin - Mild irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant Rabbit - 72 hours 150 - ug I 540 mg - 24 hours 50 - mg Skin - Severe irritant Human - 0.01 % - Skin - Severe irritant Rabbit - 0.8 %						
Skin - Mild irritant				-		-
Skin - Mild irritant Rabbit - 540 mg - 24 hours 50 - mg Skin - Severe irritant Human - 0.01 % - Skin - Severe irritant Rabbit - 0.8 % -		Skin - Mild irritant	Human	-		-
Skin - Moderate irritant Rabbit - 24 hours 50 - mg Skin - Severe irritant Human - 0.01 % - Skin - Severe irritant Rabbit - 0.8 % -						
Skin - Severe irritant Human - 0.01 % - Skin - Severe irritant Rabbit - 0.8 % -				-		-
Skin - Severe irritant Human - 0.01 % - Skin - Severe irritant Rabbit - 0.8 % -		Skin - Moderate irritant	Rabbit	-		-
Skin - Severe irritant Rabbit - 0.8 % -						
						-
				-		-
Skin - Severe irritant Rabbit - 24 hours 2 -		Skin - Severe irritant	Kappit	-		-
mg Fine Mederate instant Dahhit Chause 19	athydana ayida	Fixes Mederate invitant	Dabbit			
	ethylene oxide	Eyes - Moderate irritant	Kappit	-		-
mg mg					mg	
Conclusion/Summary : Not available.	Conclusion/Summary	Not available.				

Sensitisation

Conclusion/Summary

: Not available.

Mutagenicity

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)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects \
Solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
methyl methacrylate	Category 3	-	Respiratory tract irritation

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toluene	Category 3	-	Narcotic effects
cumene	Category 3	_	Respiratory tract
			irritation
propylene oxide	Category 3	-	Respiratory tract
			irritation
formaldehyde	Category 3	-	Respiratory tract
			irritation
ethylene oxide	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
toluene dioctyltin dilaurate benzene	Category 2 Category 2 Category 1 Category 1 Category 1	- - -	hearing organs - immune system - nervous system

Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1
benzene	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 : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

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:

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

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Potential delayed effects : Not available.

Potential chronic health effects

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
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), light arom.	Acute EC50 2.9 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	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 subcapitata	72 hours
xylene	Acute EC50 1 to 10 mg/l	Algae	72 hours
,y.5.1.5	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
	route 2000 0000 µg/r maime water	grass shrimp - Palaemonetes pugio	10 110 410
	Acute LC50 13400 µg/l Fresh water	Fish - Fathead minnow -	96 hours
	Acute 2000 10400 µg/11 Testi Water	Pimephales promelas	30 Hours
2-methoxy-1-methylethyl	Acute EC50 >1000 mg/l	Algae - Pseudokirchnerella	96 hours
acetate	Acute 2000 - 1000 mg/l	subcapitata	30 Hours
acciaic	Acute EC50 408 mg/l	Daphnia - Daphnia - Daphnia magna	48 hours
	Acute LC50 134 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 4900 μg/l Marine water	Algae - Diatom - Skeletonema costatum	72 hours
	Acute EC50 7700 μg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Brine shrimp - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
2-butoxyethyl acetate	Acute EC50 1570 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 37 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 37 mg/l	Fish - Pimephales promelas	96 hours
Poly(oxy-1,2-ethanediyl), α- [3-[3-(2H-benzotriazol-2-yl) -5-(1,1-dimethylethyl)	Acute LC50 2.8 mg/l	Fish	96 hours
-3-(1,1-dimethylethyl) -4-hydroxyphenyl] -1-oxopropyl]-ω-hydroxy-			
bis(1,2,2,6,6-pentamethyl-	Acute EC50 0.22 mg/l	Algae	72 hours

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			1
4-piperidyl) sebacate			
	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
		-	
Poly(oxy-1,2-ethanediyl), α-	Acute LC50 2.8 mg/l	Fish	96 hours
[3-[3-(2H-benzotriazol-2-yl)			
-5-(1,1-dimethylethyl)			
-4-hydroxyphenyl]			
-1-oxopropyl]-ω-[3-[3-(2H-			
benzotriazol-2-yl)-5-			
(1,1-dimethylethyl)			
-4-hydroxyphenyl]			
-1-oxopropoxy]-			
1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Aquatic plants - Selenastrum	96 hours
		capricornutum	
	Acute EC50 >21000 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 6812 mg/l	Fish - Leuciscus idus	96 hours
methyl	Acute EC50 0.22 mg/l	Algae	72 hours
1,2,2,6,6-pentamethyl-			
4-piperidyl sebacate			
T-hiheriniki senacate	A custo 1 050 0 0//	Ti-h	00 5
	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
methyl methacrylate	Acute EC50 >110 mg/l Fresh water	Algae - Pseudokirchnerella	72 hours
	The state of the s	subcapitata	
	A		40.1
	Acute EC50 69 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 130 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 49 mg/l Fresh water	Algae - Pseudokirchnerella	72 hours
	7 to atto 110 = 0 10 111 g/11 10011 11 atto	subcapitata	
	Chronic NOEC 37 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 9.4 mg/l Fresh water	Fish - Danio rerio	35 days
toluene	Acute EC50 12.5 mg/l	Algae	72 hours
toldono	Acute EC50 >433 ppm Marine water	Algae - Diatom - Skeletonema	96 hours
	Acute EC30 /433 ppm Manne water		90 110015
		costatum	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Scud -	48 hours
		Gammarus pseudolimnaeus -	
		Adult	
	4 , 505000 "		40.1
	Acute EC50 3.8 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 5.5 mg/l	Fish - Oncorhynchus kisutch	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
	omonio 11020 i mg/i i roon water		21 days
	= 0 = 0 = 4	magna	40.1
cumene	Acute EC50 7.4 mg/l Marine water	Crustaceans - Brine shrimp -	48 hours
		<i>Artemia sp.</i> - Nauplii	
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		•	10.10010
	A	magna - Neonate	001
	Acute LC50 2700 μg/l Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
benzene	Acute EC50 1600000 µg/l Fresh water	Algae - Green algae -	96 hours
	Marie 2000 1000000 Mg// 1 100// Wattor	Selenastrum sp.	
	A		40.1
	Acute EC50 9.23 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		magna - Neonate	
	Acute LC50 21 mg/l Marine water	Crustaceans - Brine shrimp -	48 hours
			10.10010
		Artemia salina	
	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 -	96 hours
	Jono 2010 - 1000 mg/11 10311 water	Desmodesmus subspicatus	30 110013
	0, , , , , , , , , , , , , , , , , , ,		0.4
	Chronic NOEC 98 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	21 days
		magna	
	Chronic NOEC 1.5 to 5.4 ul/L Marine	Fish - Striped bass - <i>Morone</i>	4 weeks
	water	saxatilis - Juvenile (Fledgling,	1 1100110
	water		
		Hatchling, Weanling)	
propylene oxide	Acute LC50 89 ppm Marine water	Fish - Striped mullet - Mugil	96 hours
		cephalus	
hydrogen chloride	Acute I C50 240000 ug/l Marina water	Crustaceans - Green crab -	48 hours
hydrogen chloride	Acute LC50 240000 µg/l Marine water		48 hours
		Carcinus maenas - Adult	
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SECTION 12: Ecological information

	Acute LC50 282 ppm Fresh water	Fish - Western mosquitofish -	96 hours
		Gambusia affinis - Adult	
formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - Green algae -	72 hours
		Desmodesmus subspicatus	
	Acute EC50 0.442 mg/l Marine water	Algae - Green algae - <i>Ulva</i>	96 hours
		pertusa	
	Acute EC50 3.26 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		<i>magna</i> - Embryo	
	Acute LC50 11.41 mg/l Fresh water	Crustaceans - Water flea -	48 hours
		Ceriodaphnia dubia	
	Acute LC50 1.41 ppm Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 0.005 mg/l Marine water	Algae - Haptophyte - <i>Isochrysis</i>	96 hours
		galbana - Exponential growth	
		phase	
	Chronic NOEC 3000 ppm Fresh water	Crustaceans - European	21 days
		crayfish - Astacus astacus - Egg	
	Chronic NOEC 0.81 to 1.07 mg/l	Daphnia - Water flea - <i>Daphnia</i>	21 days
		magna	
	Chronic NOEC 1.56 mg/l Fresh water	Fish - Nile tilapia - Oreochromis	12 weeks
		niloticus - Fingerling	
ethylene oxide	Acute LC50 490000 µg/l Marine water	Crustaceans - Brine shrimp -	48 hours
		Artemia sp.	
	Acute LC50 137000 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		magna	
	Acute LC50 84000 μg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-
Solvent naphtha (petroleum), light arom.	-	78 % - Readily - 28 days	-	Fresh water
2-methoxy-1-methylethyl acetate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	100 % - 28 days	-	-
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	83 % - 28 days	-	-
1-methoxy-2-propanol	OECD 301E 301E Ready Biodegradability - Modified OECD Screening Test	96 % - 28 days	-	-

Conclusion/Summary : Not available.

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SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate Solvent naphtha (petroleum), light arom.	-		Readily Readily
2-methoxy-1-methylethyl acetate	-	-	Readily
2-butoxyethyl acetate 1-methoxy-2-propanol toluene	- - -		- Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential	
n-butyl acetate	2.3	-	Low	
Solvent naphtha (petroleum),	-	10 to 2500	High	
light arom.				
xylene	3.12	8.1 to 25.9	Low	
2-methoxy-1-methylethyl	1.2	-	Low	
acetate				
ethylbenzene	3.6	-	Low	
2-butoxyethyl acetate	1.51	-	Low	
1-methoxy-2-propanol	<1	-	Low	
methyl methacrylate	1.38	-	Low	
toluene	2.73	90	Low	
dioctyltin dilaurate	-	<100	Low	
cumene	3.55	35.48	Low	
benzene	2.13	11	Low	
propylene oxide	<1	-	Low	
hydrogen chloride	0.25	-	Low	
ethylene oxide	-0.3	-	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

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

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SECTION 13: Disposal considerations

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	PAINTPAINT	PAINT	Paint
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 : <u>Hazard identification number</u> 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_

Special provisions 163, 223, 367, 955

IATA : Quantity 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

14.6 Special precautions for

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.

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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

Intrinsic property	Ingredient name			Date of revision
Carcinogen	methyloxirane	Candidate	-	12/19/2012
Mutagen	methyloxirane	Candidate		12/19/2012

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.	-
propylene oxide	UK Occupational Exposure Limits EH40 - WEL	propylene oxide; 1,2-epoxypropane	Carc.	-
formaldehyde	UK Occupational Exposure Limits EH40 - WEL	formaldehyde; methanal	Carc.	-
ethylene oxide	UK Occupational Exposure Limits EH40 - WEL	ethylene oxide; epoxyethane	Carc.	-

EU regulations

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

Air

Water

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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SECTION 15: Regulatory information

Not listed.

Montreal Protocol

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.

Japan

Eurasian Economic Union: Russian Federation inventory: Not determined. : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : All components are listed or exempted. **Taiwan** : All components are listed or exempted.

Thailand Not determined. **Turkey** Not determined. : Not determined. **United States Viet Nam** : Not determined.

15.2 Chemical safety

assessment

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

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
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360D	May damage the unborn child.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361	Suspected of damaging fertility or the unborn child.
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. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
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
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 1	FLAMMABLE LIQUIDS - Category 1
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 1B	GERM CELL MUTAGENICITY - Category 1B
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
Deta of incur/Deta of vario	ion 10/05/0002 Detectors ions 10/7/0002 Version 14 20/02

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SECTION 16: Other information

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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.

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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	1 to 4 hours	Local exhaust ventilation	Refer to relevant technical standards
Film formation - force drying, stoving and other technologies	PROC04	1 to 4 hours	Local exhaust 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 chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Professional application of coatings and inks by spraying	PROC11	Compressed-air breathing apparatus to EN 14594 wit an assigned protection factor of at least 20.		Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
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 chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Waste management	PROC08a	Wear a respirator conforming to EN140 with	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in

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8-214 HS Scratch Resistant Clear Coat		Professional spray painting, near-industrial setting		
		an assigned protection		combination with specific
		factor of at least 10.		activity training.

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.