

# SAFETY DATA SHEET Prefere 5020

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

1.1 Product identifier	
Product name	: Prefere 5020
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Use of the substance/ mixture	: Industrial/Professional Use: Hardener. Woodworking industry.
1.3 Details of the supplier of	of the safety data sheet
Supplier	: Dynea AS P.O.Box 160, N-2001 Lillestrøm Norway Tel. +47 63897100 Fax. +47 63897610
e-mail address of person responsible for this SDS	: sds@dynea.com
1.4 Emergency telephone r	number
National advisory body/Poi	ison Centre
Telephone number	: Not available.
<u>Supplier</u>	
Telephone number	: +47 63897100
Hours of operation	: 24 hours

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Skin Corr. 1B, H314 Eye Dam. 1, H318

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 Hazard pictograms



## **SECTION 2: Hazards identification**

Signal word	: Danger
Hazard statements	: H314 - Causes severe skin burns and eye damage.
Precautionary statements	<ul> <li>P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.</li> <li>P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.</li> <li>P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or physician.</li> <li>P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazardous ingredients	: formic acid
Supplemental label elements	: Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). 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 requirent Not applicable.	<u>nents</u>

#### 2.3 Other hazards

Other hazards which do : None known. not result in classification

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

3.2 Mixtures : Mixture					
Product/ingredient name	Identifiers	%	Classification	Туре	
formic acid	REACH #: 01-2119491174-37 EC: 200-579-1 CAS: 64-18-6 Index: 607-001-00-0	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]	
ethanediol; ethylene glycol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	≤3	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (oral)	[1] [2]	
			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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

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

Substance classified with a health or environmental hazard

- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

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

#### 4.1 Description of first aid measures

Eye contact	: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.					
Inhalation	: Get medical attention immediately. Move exposed person to fresh air. If breathing is difficult, give oxygen.					
Skin contact	: Get medical attention immediately. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.					
Ingestion	: Get medical attention immediately. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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. Chemical burns must be treated promptly by a physician.					
General	: Move the victim to a safe area as soon as possible. If unconscious, place in recovery position and seek medical advice. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Allow the victim to rest in a well-ventilated area.					
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.					

	oms and effects, both acute and delayed
<u>Potential acute health effe</u> Eye contact Inhalation	<ul> <li>Causes serious eye damage.</li> <li>May give off gas, vapour or dust that is very irritating or corrosive to the respiratory</li> </ul>
Skin contact	system. Causes severe burns.
Ingestion	: May cause burns to mouth, throat and stomach.
<u>Over-exposure signs/sym</u> Eye contact	: Adverse symptoms may include the following: pain watering redness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any imme	ediate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Date of issue/Date of revision	: 26.04.2018 Date of previous issue : 02.11.2015 Version : 8 3/14

# **SECTION 4: First aid measures**

# SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: ☑se dry chemical, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special precautions 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.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

6.1 Personal precautions, pr	ot	ective 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. Do not breathe 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 precautio	ns					
		oid dispersal of spilt material and runoff and contact with soil, waterways, drains d sewers. Inform the relevant authorities if the product has caused environmental llution (sewers, waterways, soil or air).				
6.3 Methods and material for	r c	ontainment and cleaning up				
Small spill	:	Stop leak if without risk. Move containers from spill area. Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use a spill kit.				
Large spill	:	Approach the release from upwind. Stop leak if without risk. Move containers from spill area. 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. Contaminated absorbent material may pose the same hazard as the spilt product.				

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

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	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	: Fut on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest.
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 away from incompatible materials (see Section 10). Store locked up. Keep away from food, drink and animal feeding stuffs. 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.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
formic acid	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 9,6 mg/m <sup>3</sup> 8 hours. TWA: 5 ppm 8 hours.
ethanediol; ethylene glycol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Particulate STEL: 104 mg/m <sup>3</sup> 15 minutes. Form: Vapour TWA: 52 mg/m <sup>3</sup> 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour TWA: 20 ppm 8 hours. Form: Vapour

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace

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

atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) 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
formic acid	DNEL	Long term Inhalation	9,5 mg/m³	Workers	Local
	DNEL	Long term Inhalation	9,5 mg/m³	Workers	Systemic
	DNEL	Short term	19 mg/m³	Workers	Local
	DNEL	Short term Inhalation	19 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	3 mg/m³	Consumers	Local
	DNEL	Long term Inhalation	3 mg/m³	Consumers	Systemic
	DNEL	Short term Inhalation	9,5 mg/m³	Consumers	Local
	DNEL	Short term Inhalation	9,5 mg/m³	Consumers	Systemic
ethanediol; ethylene glycol	DNEL	Long term Inhalation	35 mg/m³	Workers	Local
	DNEL	Long term Dermal	106 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	53 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	7 mg/m <sup>3</sup>	Consumers	Local

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
formic acid	PNEC	Fresh water	2 mg/l	-
	PNEC	Marine	0,2 mg/l	-
	PNEC	Fresh water sediment	13,4 mg/kg	-
	PNEC	Marine water sediment	1,34 mg/kg	-
	PNEC	Soil	1,5 mg/kg	-
	PNEC	Sewage Treatment Plant	7,2 mg/l	-
ethanediol; ethylene glycol	PNEC	Fresh water	10 mg/l	-
	PNEC	Marine	1 mg/l	-
	PNEC	Sewage Treatment Plant	199,5 mg/l	-
	PNEC	Fresh water sediment	20,9 mg/l	-
	PNEC	Soil	1,53 mg/kg	-

#### 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

6/14

# 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. Wash contaminated clothing before reusing. Ensure that evewash stations and safety

containinated clothing before reasing.	
showers are close to the workstation lo	ocation.

Date of issue/Date of revision : 26.04.2	D18 Date of previous issue	: 02.11.2015	Version : 8
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## **SECTION 8: Exposure controls/personal protection**

Eye/face protection	: Use eye protection according to EN 166, designed to protect against liquid splashes. Recommended: Tightly-fitting goggles
Hand protection	<ul> <li>Wear suitable gloves tested to EN374. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.</li> </ul>
	Recommended : Protective Index 6 / Breakthrough time >480 minutes: neoprene rubber 0.7 mm thickness or butyl rubber 0.7 mm thickness
Other skin protection	: Wear work clothing with long sleeves. Cotton or cotton/synthetic overalls or coveralls are normally suitable.
	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	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. No personal respiratory protective equipment normally required.
	Long Term Exposure / high concentrations : Self-contained respirator (DIN EN 133) or full face mask (DIN EN 136)
	Short term exposure / Low exposure : Half-face mask (DIN EN 140)
	Recommended: Type A (Brown): organic gases and vapours with a boiling point higher than 65°C.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties **Physical state** : Liquid. Colour : White. Odour : Formic acid. **Odour threshold** : Not available. pН : 2 to 2.2 Melting point/freezing point : Not available. Initial boiling point and : Not available. boiling range : Closed cup: >100°C Flash point **Evaporation rate** : Not available. : Not available. Flammability (solid, gas) Upper/lower flammability or : Not available. explosive limits Vapour pressure : Not available. : Not available. Vapour density : Not available. **Relative density** Density (liquid) : 1,1 g/cm<sup>3</sup> [25°C] Solubility : Partly soluble in water Partition coefficient: n-octanol/ : Not available. water : Not available. Auto-ignition temperature **Decomposition temperature** : Not available. Viscosity : Dynamic: 3000 to 4000 mPa·s [25 °C] **Explosive properties** : Not available. **Oxidising properties** : Not available.

Date of issue/Date of revision

:26.04.2018

## **SECTION 9: Physical and chemical properties**

#### 9.2 Other information

VOC content (Without volume	: 18,4 % (w/w)
exclusion)	202,5 g/l

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	: No specific data.			
10.5 Incompatible materials	: No specific data.			
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

#### **Potential Adverse effects**

Inhalation	: May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
Ingestion	: May cause burns to mouth, throat and stomach.
	Adverse symptoms may include the following: stomach pains
Skin contact	: Causes severe burns.
	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Eye contact	: Causes serious eye damage.
	Adverse symptoms may include the following: pain watering redness

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
formic acid	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rat Rat	7,4 mg/l >2000 mg/kg 730 mg/kg	4 hours - -
ethanediol; ethylene glycol	LC50 Inhalation Dusts and mists LD50 Dermal	Rat Mouse - Male, Female	>2,5 mg/l >3500 mg/kg	6 hours -
	LD50 Oral	Rat - Male, Female	7712 mg/kg	-

**formic acid**: Toxic by inhalation. Harmful if swallowed. **ethanediol**: Harmful if swallowed.

# **SECTION 11: Toxicological information**

## Acute toxicity estimates

Product	ATE value
Oral Inhalation (vapours)	4068,4 mg/kg 49,35 mg/l
	10,00 mg/i

Product Conclusion/	:	May be harmful if swallowed.
Summary		

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
formic acid	Eyes - Severe irritant	Rabbit	-	122 milligrams	-
	Skin - Mild irritant	Rabbit	-	610 milligrams	-
Skin	: formic acid: Corrosive to the skin. ethanediol: Mild irritant				
Eyes	: formic acid: Risk of serious damage to eyes. ethanediol: Mildly irritating to the eyes.				
Product Conclusion/ Summary	: Causes severe skin burns and eye damage.				

## **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result	
Formic acid ethanediol; ethylene glycol	skin skin	Guinea pig Human	Not sensitizing Not sensitizing	
Skin	: formic acid: Not sensitizing ethanediol: Not sensitizing			
Respiratory	: ethanediol: Not sensitizing			
Product Conclusion/ Summary	: Based on available data, the classification criteria are not met.			

## Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
fhanediol; ethylene glycol	Sub-acute NOAEL Dermal	Dog	2 mg/kg	4 weeks; 7 days per week

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result	
ethanediol; ethylene glycol	-	Experiment: In vitro Subject: Bacteria	Negative	
	ethanediol: Based or	available data, the classification	criteria are not met.	
Product Conclusion/ Summary	: Based on available da	ata, the classification criteria are no	ot met.	
<b>Carcinogenicity</b>	ethanediol <sup>.</sup> Based or	n available data, the classification	criteria are not met	
Product Conclusion/ Summary		ata, the classification criteria are no		
Reproductive toxicity				
Date of issue/Date of revision	: 26.04.2018 Date of pre	vious issue : 02.11.2015	Version : 8	9/14

# **SECTION 11: Toxicological information**

Product Conclusion/	:	Based on available data, the classification criteria are not met.
Summary		

## **Teratogenicity**

Product Conclusion/	:	Based on available data, the classification criteria are not met.
Summary		

#### Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethanediol; ethylene glycol	Category 2	Oral	kidneys

<u>Aspiration hazard</u> Product Conclusion/ Summary	:	Based on available data, the classification criteria are not met.	
Interactive effects	:	No specific data.	
Other information	:	No specific data.	

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Formic acid	Acute EC50 32,64 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 32,19 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 68 mg/l	Fish - Leuciscus idus	96 hours
	Chronic NOEC >102 mg/l	Daphnia - Daphnia magna	21 days
ethanediol; ethylene glycol	Acute EC20 >1995 mg/l Fresh water	Micro-organism	30 minutes Static
	Acute EC50 6500 to 13000 mg/l	Aquatic plants - Selenastrum capricornutum	96 hours
	Acute EC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours Static
	Acute LC50 72860 mg/l Fresh water	Fish - Pimephales promelas	96 hours Static
	Chronic NOEC 15380 mg/l	Fish - Pimephales promelas	7 days

**Conclusion/Summary** : ethanediol: Based on available data, the classification criteria are not met.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethanediol; ethylene glycol	OECD 301C 301C Ready Biodegradability - Modified MITI Test (I)	96 % - 14 days	-	-

Conclusion/Summary : formic acid: Readily biodegradable ethanediol: Readily biodegradable

Date of issue/Date of revision	: 26.04.2018	Date of previous issue	: 02.11.2015	Version : 8
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Prefere 5020				
SECTION 12: Ecological information				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
thanediol; ethylene glycol	-	-	Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
formic acid	-2,3	-	low
ethanediol; ethylene glycol	-1,36		low

12.4 Mobility in soil		
Soil/water partition coefficient (Koc)	:	Not available.
Mobility	:	Not available.
12.5 Results of PBT and vF	νB	assessment
PBT	:	Not applicable.
vPvB	:	Not applicable.

12.6 Other adverse effects	:	No known significant effects or critical hazards.
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## **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.
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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

Prefere 5020				
SECTION 14: Transport information				
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3265	UN3265	UN3265	UN3265
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S. (formic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S. (formic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S. (formic acid)	
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Fazard identification number 80 Limited quantity 1 L Special provisions 274 Tunnel code (E)	Special provisions 274	Emergency schedules F-A, S-B Special provisions 274	Quantity limitation Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851. Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities - Passenger Aircraft: 0, 5 L. Packaging instructions: Y840. Special provisions A3, A803

user

**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 : Not available. according to Annex II of Marpol and the IBC Code

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (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.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

## **Other EU regulations**

Industrial emissions (integrated pollution prevention and control) - Air

Date of issue/Date of revision : 26.04.2018 Date of previous issue	: 02.11.2015	Version : 8	12/14
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# **SECTION 15: Regulatory information**

## Not listed

## Industrial emissions (integrated pollution prevention and control) - Water

Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

## Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

## Seveso Directive

This product is not controlled under the Seveso Directive.

## National regulations

#### International regulations

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

Not listed.

## Montreal Protocol (Annexes A, B, C, E)

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	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
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**

	t has changed from previously issued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
	he classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Classification	Justification
Skin Corr. 1B, H314 Eye Dam. 1, H318	Calculation method Calculation method
Full text of abbreviated H s	tatements
<ul> <li>₩226</li> <li>H302</li> <li>H314</li> <li>H318</li> <li>H331</li> <li>H373 (oral)</li> </ul>	Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure if swallowed.
Full text of classifications	CLP/GHS]
Acute Tox. 3, H331 Acute Tox. 4, H302 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314 Skin Corr. 1B, H314 STOT RE 2, H373 (oral)	ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (oral) - Category 2
Date of issue/ Date of revision	: 26.04.2018
Date of previous issue	: 02.11.2015
Previous product name	: Not available.
Version	: 8