

# SAFETY DATA SHEET Prefere 5035

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

1.1 Product identifier

Product name : Prefere 5035

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

**Use of the substance/**: Industrial/Professional Use: Hardener. Woodworking industry.

mixture

1.3 Details of the supplier 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 number

## National advisory body/Poison Centre

**Telephone number**: Not available.

**Supplier** 

**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. 1, 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 :



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## **SECTION 2: Hazards identification**

Signal word

: Danger

**Hazard statements** 

: H314 - Causes severe skin burns and eye damage.

**Precautionary statements** 

: \$\overline{\pi}280\$ - Wear protective gloves. Wear protective clothing. Wear eye or face protection.

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.

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.

P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.

P405 - Store locked up.

P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients

Supplemental label

elements

formic acidNot applicable.

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

articles

: Not applicable.

## Special packaging requirements

Not applicable.

#### 2.3 Other hazards

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	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]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≤0,3	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS), optic nerve)	[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.

<u>Type</u>

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## **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. Wash contaminated skin with 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. 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.

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

## Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : May give off gas, vapour or dust that is very irritating or corrosive to the respiratory

system.

**Skin contact**: Causes severe burns.

**Ingestion**: May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

**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 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.

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## SECTION 4: First aid measures

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, 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, 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. 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 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).

#### 6.3 Methods and material for containment 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. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Contaminated absorbent material may pose the same hazard as the spilt product.

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

## 6.4 Reference to other sections

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

## **SECTION 7: Handling and storage**

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

## 7.1 Precautions for safe handling

#### Protective measures

: 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. Avoid release to the environment. Keep away from alkalis.

## 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. Separate from alkalis. 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
Industrial sector specific

: Not available.

: Not available.

solutions

## 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/m³ 8 hours. TWA: 5 ppm 8 hours.
methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.  STEL: 333 mg/m³ 15 minutes.  STEL: 250 ppm 15 minutes.  TWA: 266 mg/m³ 8 hours.  TWA: 200 ppm 8 hours.

## 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

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## **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 Inhalation	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
methanol	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	260 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	260 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Dermal	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	50 mg/m³	Consumers	Systemic
	DNEL	Short term Oral	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	50 mg/m³	Consumers	Local
	DNEL	Long term Dermal	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	50 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	50 mg/m³	Consumers	Local

**PNECs** 

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

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
formic acid	PNEC PNEC	Fresh water Marine Fresh water sediment Marine water sediment Soil Sewage Treatment Plant	2 mg/l 0,2 mg/l 13,4 mg/kg 1,34 mg/kg 1,5 mg/kg 7,2 mg/l	- - - -
methanol	PNEC PNEC	Fresh water Marine Intermittent release Fresh water sediment Soil Marine water sediment Sewage Treatment Plant	20,8 mg/l 2,08 mg/l 1540 mg/l 77 mg/kg dwt 100 mg/kg wwt 7,7 mg/kg dwt 100 mg/l	Assessment Factors Assessment Factors Assessment Factors Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Assessment Factors

## 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.

## **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 eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Use eye protection according to EN 166, designed to protect against liquid splashes.

Recommended: Tightly-fitting goggles

Hand protection

: 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.

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.

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

9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Colour Greyish-white. [Light]

Odour : Formic acid. **Odour threshold** : Not available.

Hq : 1 to 2.5

Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range

Flash point : Closed cup: >100°C

**Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Vapour pressure : Not available. Vapour density : Not available. Relative density : Not available. **Density (liquid)** 1,3 g/cm3 [25°C] Solubility : Dispersible in water

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

**Viscosity** Dynamic: 2000 to 3500 mPa·s [25 °C]

**Explosive properties** : Not available. : Not available. Oxidising properties

9.2 Other information

**VOC content (Without volume** : 18,1 % (w/w) exclusion) 235 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 : Attacks many metals producing extremely flammable hydrogen gas which can form

explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis

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

decomposition products should not be produced.

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## **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	Rat	7,4 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	730 mg/kg	-
methanol	LC50 Inhalation Vapour	Rat - Male,	128,2 mg/l	4 hours
		Female		
	LD50 Dermal	Rabbit	17100 mg/kg	-

formic acid: Toxic by inhalation. Harmful if swallowed.

**methanol**: Toxic by inhalation, in contact with skin and if swallowed.

## Acute toxicity estimates

Product	ATE value
Øral Dermal Inhalation (vapours)	3797,7 mg/kg 157816,8 mg/kg 40,43 mg/l

**Product Conclusion/** 

Summary

: May be harmful if swallowed.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
formic acid	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	-	122 milligrams 610 milligrams	-

**Skin** : **formic acid**: Corrosive to the skin.

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

**Eyes** : **formic acid**: Risk of serious damage to eyes.

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

**Product Conclusion/** 

Summary

: Causes severe skin burns and eye damage.

## **Sensitisation**

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## **SECTION 11: Toxicological information**

Product/ingredient name	Route of exposure	Species	Result
formic acid methanol	skin Respiratory skin	Guinea pig	Not sensitizing Not sensitizing Not sensitizing

Skin : formic acid: Not sensitizing

methanol: Not sensitizing

**Respiratory** : methanol: Not sensitizing

**Product Conclusion/** 

**Summary** 

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

## **Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
methanol	Chronic NOAEL Oral	Rat - Male, Female	466 to 529 mg/ kg Repeated dose	104 weeks
	Chronic NOEC Inhalation Vapour	Rat - Male, Female	0,13 mg/l	12 months
	Chronic NOAEC Inhalation Vapour	Rat - Male, Female	1,3 mg/l Continuous	108 days
	Chronic NOAEC Inhalation Vapour	Rat	1,33 mg/l Continuous	17 days; 22,7 hours per day

**Mutagenicity** 

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

**Product Conclusion/** 

**Summary** 

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

**Carcinogenicity** 

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

Product Conclusion/

Summary

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

Reproductive toxicity

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

**Product Conclusion/** 

**Summary** 

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

**Teratogenicity** 

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

**Product Conclusion/** 

Summary

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

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
methanol	Category 1		central nervous system (CNS) and optic nerve

## Specific target organ toxicity (repeated exposure)

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

## **Aspiration hazard**

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## **SECTION 11: Toxicological information**

**Product Conclusion/** 

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

**Summary** 

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
methanol	EC50 22000 mg/l Fresh water	Algae - Selenastrum	96 hours
		capricornutum	Static
	IC50 8800 mg/l Fresh water	Micro-organism - Nitrosomonas	24 hours
		sp.	Static
	Acute EC50 >10000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	_		Static
	Acute LC50 15400 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours Flow through

**Conclusion/Summary** 

: methanol: No known significant effects or critical hazards.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
methanol	-	83 to 91 % - Readily - 3 days	-	Fresh water Sediment
	-	71 to 83 % - Readily - 5 days	BOD/ThOD	Sewage
	-	69 to 97 % - 5 days	O <sub>2</sub> Consumption	Marine water
	-	53,4 % - 5 days	-	-
	-	46,3 % - 5 days	-	-

Conclusion/Summary

: formic acid: Readily biodegradable methanol: Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
methanol	-	50%; 17.2 day(s)	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
rmic acid	-2,3	-	low
methanol	-0,77	<10	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

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## **SECTION 12: Ecological information**

vPvB : Not applicable.

**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 g

: 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**

	ADR/RID	ADN	IMDG	IATA
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)	Corrosive liquid, acidic, organic, n.o.s. (formic acid)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Mazard identification number 80 Limited quantity 1 L Special provisions 274 Tunnel code (E)	Special provisions 274	schedules F-A, S-B Special provisions 274	Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851. Cargo Aircraft Only: 30 L. Packaging instructions: 855.

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

## **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

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.

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## **SECTION 15: Regulatory information**

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

Not listed.

**Inventory list** 

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Europe : MI components are listed or exempted.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

: Not determined. Malaysia : Not determined. **New Zealand** : Not determined. **Philippines** : Not determined. Republic of Korea Taiwan : Not determined. : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** 

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

: ATE = Acute Toxicity Estimate

acronyms

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

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Corr. 1, H314 Eye Dam. 1, H318	On basis of test data On basis of test data

## Full text of abbreviated H statements

<b>⊬</b> 225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H331	Toxic if inhaled.	
H370	Causes damage to organs.	

Full text of classifications [CLP/GHS]

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## **SECTION 16: Other information**

Acute Tox. 3, H301 ACUTE TOXICITY (oral) - Category 3 Acute Tox. 3, H311 ACUTE TOXICITY (dermal) - Category 3 Acute Tox. 3, H331 ACUTE TOXICITY (inhalation) - Category 3 Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2 Flam. Lig. 3, H226 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1 Skin Corr. 1, H314 Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1A **STOT SE 1, H370** SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category

Date of issue/ Date of

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Previous product name : Not available.

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