

Parker Hannifin Ltd., Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point Halifax Road

Unit 6 Century Point Halifax Road High Wycombe Bucks, HP12 3SL United Kingdom

Telephone: 044 (0) 1494 455 400

**CHO-BOND**® **1086** SDS No: PHC-493 EU

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#### SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : CHO-BOND® 1086

Product Code(s) : CHO-BOND® 1086

SDS No. : PHC-493 EU

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

: Adhesion promoter /Primers

Use pattern: Electronics industry - Industrial use.

Refer to restrictions found in REACH Annex XVII item 48. Refer to restrictions found in REACH Annex XVII item 69. Refer to restrictions found in REACH Annex XVII item 75.

1.3 Details of the supplier of the safety data sheet:

#### Parker Hannifin Ltd.

Engineered Materials Group Chomerics Division Europe Unit 6 Century Point Halifax Road High Wycombe Bucks, HP12 3SL

United Kingdom E-mail: chomerics\_europe@parker.com

Website: www.chomerics.com Telephone: 044 (0) 1494 455 400

Parker Hannifin Manufacturing France SAS

ZAC des Epineaux 7 avenue Louis Blériot 95740 Frépillon, France

Telephone: 033 (01) 34 32 39 00 Email: parker.france@parker.com Website: www.parkerfrance.fr

**Telephone** : 044 (0) 1494 455 400

### 1.4 Emergency Telephone Number

: INFOTRAC: (800) 535-5053 (Within Continental US and Canada); + 001 (352)

323-3500 (International)
Poisons Information Centre
The United Kingdom NHS 111
The Netherlands +31887558561

France +33383852192 Germany +4930184120 Spain +34917689800 Poland +48422538400 Sweden +46104566750

Italy

06 68593726 (CAV "Osp. Pediatrico Bambino Gesu" Dip. Emergenza - Roma) 800

183459 (Az. Osp. Univ. Foggia - Foggia) 081 5453333 (Az. Osp. "A. Cardarelli" - Napoli) 06 49978000 (CAV Policlinico "Umberto I" - Roma) 06 3054343 (CAV Policlinico "A. Gemelli" - Roma)

055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)

0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02

66101029 (Osp. Niguarda Ca' Granda - Milano)

800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)



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#### 1.5 National Contact

: E-mail: chomerics\_europe@parker.com Website: www.chomerics.com

#### SECTION 2. HAZARDS IDENTIFICATION

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#### 2.1 Classification of the substance or mixture

Clear liquid. Alcohol odour.

#### Most important hazards:

Highly flammable. May be ignited by open flame. Harmful if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Repeated exposure may cause skin dryness or cracking. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:

Flammable liquid - Category 2; H225 Acute toxicity (Oral) - Category 4; H302 Specific target organ toxicity, single exposure - Category 1; H370 EUH066

#### 2.2 Label elements

#### Hazard pictogram(s)







Hazardous components which must be listed on the label: Methanol.

#### Signal word:

**DANGER!** 

#### Hazard statements:

H225 - Highly flammable liquid and vapour.

H302 - Harmful if swallowed.

H370 - Causes damage to the optic nerves (eyes) if swallowed.

## Precautionary statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.

P260 - Do not breathe vapour.

P280 - Wear protective gloves and eye/face protection.

P370 + P378 - In case of fire: Use carbon dioxide, dry sand, dry chemical or alcohol-resistant foam to extinguish.

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P501 - Dispose of contents/container in accordance with local regulation.

#### Supplemental Hazard Statements:

EUH066 - Repeated exposure may cause skin dryness or cracking.

#### 2.3 Other hazards



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#### Other hazards which do not result in classification:

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Burning produces obnoxious and toxic fumes. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. May be mildly irritating to skin, eyes and respiratory system. May cause gastrointestinal irritation. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

Endocrine disrupting properties: None known.

#### PBT assessment:

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical nature - Mixture of: Alcohols; Solvents.

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Ethanol	64-17-5	200-578-6	Not available	70.0 - 75.0	Flam. Liq. 2; H225	Not applicable.
Methanol	67-56-1	200-659-6	Not available	10.0 - 15.0	Flam. Liq. 2; H225 *Acute Tox. 3; H301 *Acute Tox. 3; H311 *Acute Tox. 3; H331 STOT SE 1;	27.33 mg/L
4-methylpentan-2-one	108-10-1	203-550-1	Not available	0.1 - 0.9	Flam. Liq. 2; H225 *Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Carc.2 ;H351 EUH066	ATE inhalation (vapours) = 1366.12 mg/L



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Toluene	108-88-3	203-625-9	Not available	0.1 - 0.9	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361d STOT RE 2; H373	Not applicable.
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The above CLP Acute toxicity Classifications for the following chemicals are 'Minimum Classifications': Methanol; 4-methylpentan-2-one.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

#### SECTION 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

Ingestion: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

Rinse mouth. Never give anything by mouth to an unconscious person.

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing

is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide

artificial respiration. IF exposed: Call a POISON CENTRE or doctor/physician.

Skin contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. If exposed: Call a POISON CENTER or doctor/physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids. If exposed: Call a

POISON CENTER or doctor/physician.

#### 4.1.2 Self-protection for the first aider

: Wear protective gloves and eye/face protection.

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

: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). May cause blindness if swallowed - cannot be made non-poisonous.

Causes damage to the optic nerves (eyes) if swallowed. Affected person could experience a latent period of no symptoms, followed by blurred vision and possibly blindness.

May be mildly irritating to skin, eyes and respiratory system. Exposure may cause temporary irritation, redness or discomfort. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.

Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

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

: Provide general supportive measures and treat symptomatically.

#### SECTION 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire. Water may be ineffective because it may not cool product below the flashpoint.



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

: Highly flammable liquid and vapour.. Will ignite when exposed to heat, flame and other sources of ignition. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; formaldehyde; Nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

: Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment.

#### 6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

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

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

#### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

: Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

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

: Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Do not store near any incompatible materials (see Section 10).

#### 7.3 Specific end use(s) : Primers - Conductive adhesive.



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## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **8.1 Control Parameters**

<b>Chemical Name</b>	Exposure Limits	<u>Type</u>	<u>Notes</u>
Ethanol			
	None known.	European Union (OEL)	None.
	1000 ppm (1900 mg/m³) (TWA)	Finland (OEL)	N/Av
	1000 ppm (1900 mg/m³) (TWA) 5000 ppm (9500 mg/m³) (STEL)	France (OEL)	None.
	500 ppm (960 mg/m³) (TWA)	Germany (OEL)	(exposure factor 2)
	1900 mg/m³ (TWA) 7600 mg/m³ (STEL)	Hungary (OEL)	None.
	1900 mg/m³ (TWA)	Poland (OEL)	None.
	1000 ppm (1910 mg/m³) (TWA)	Spain (OEL)	None.
	500 ppm (1000 mg/m³) (TWA) 1000 ppm (1900 mg/m³) (STEL)	Sweden (OEL)	None.
	1000 ppm (1920 mg/m³) (TWA) 3000 ppm (5760 mg/m³) (STEL)	The United Kingdom (WELs)	None.
lethanol	200 ppm (260 mg/m³) (TWA)	European Union (OEL)	Possibility of significant uptake through the skin
	200 ppm (270 mg/m³) (TWA) 250 ppm (330 mg/m³) (STEL)	Finland (OEL)	Potential for cutaneous absorption
	200 ppm (260 mg/m³) (TWA) 1000 ppm (1300 mg/m³) (STEL)	France (OEL)	Risk of cutaneous absorption
	200 ppm (270 mg/m³ (exposure factor 4) (TWA)	Germany (OEL)	Skin notation
	260 mg/m³ (TWA)	Hungary (OEL)	Potential for cutaneous absorption
	200 ppm (260 mg/m³) (TWA)	Italy (OEL)	Skin - Potential for cutaneous absorption
	100 ppm (133 mg/m³) (TWA)	Netherlands (OEL)	Skin notation
	100 mg/m³ (TWA) 300 mg/m³ (STEL)	Poland (OEL)	Skin notation
	200 ppm (266 mg/m³ (TWA)	Spain (OEL)	Skin - Potential for cutaneous absorption
	200 ppm (266 mg/m³) (TWA) 250 ppm (333 mg/m³) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption



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	20 ppm (83 mg/m³) (TWA)	European Union (OEL)	None.
	50 ppm (208 mg/m³) (STEL)		
	20 ppm (80 mg/m³) (TWA) 50 ppm (210 mg/m³) (STEL)	Finland (OEL)	None.
	20 ppm (83 mg/m³) (TWA) 50 ppm (208 mg/m³) (STEL)	France (OEL)	None.
	20 ppm (83 mg/m³) (exposure factor 2	Germany (OEL)	Skin notation
	) (TWA) 83 mg/m³ (TWA) 208 mg/m³ (STEL)	Hungary (OEL)	None.
	20 ppm (83 mg/m³) (TWA) 50 ppm (208 mg/m³) (STEL)	Italy (OEL)	None.
	83 mg/m³ (TWA)	Poland (OEL)	None.
	200 mg/m³ (STEL) 20 ppm (83 mg/m³) (TWA)	Spain (OEL)	None.
	50 ppm (208 mg/m³) (STEL) 25 ppm LLV; 100 mg/m³ LLV;50 ppm	Sweden (OEL)	N/Av
	STV; 200 mg/m³ STV; 50 ppm (208 mg/m³) (TWA) 100 ppm (416 mg/m³) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption
oluene			
	50 ppm (192 mg/m³) (TWA) 100 ppm (384 mg/m³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	25 ppm (81 mg/m³) (TWA) 100 ppm (380 mg/m³) (STEL)	Finland (OEL)	Potential for cutaneous absorption
	20 ppm (76.8 mg/m³) (TWA) 100 ppm (384 mg/m³) (STEL)	France (OEL)	Risk of cutaneous absorption
	50 ppm (190 mg/m³) (exposure factor 4) (TWA)	Germany (OEL)	Skin notation
	100 mg/m³ (TWA) 380 mg/m³ (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	50 ppm (192 mg/m³) (TWA)	Italy (OEL)	Skin - Potential for cutaneous absorption
	150 mg/m³ (TWA) 384 mg/m³ (STEL)	Netherlands (OEL)	None.
	100 mg/m³ (TWA) 200 mg/m³ (STEL)	Poland (OEL)	Skin notation
	50 ppm (192 mg/m³) (TWA) 100 ppm (384 mg/m³) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	50 ppm (192 mg/m³) (TWA) 100 ppm (384 mg/m³) (STEL)	Sweden (OEL)	Skin notation
	50 ppm (191 mg/m³) (TWA) 100 ppm (384 mg/m³) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption

Biological Exposure Indic	ces:	
<u>Chemical Name</u>	Biological Exposure Indices	<u>Type</u>



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Methanol		
	15 mg/L, Determinant: Methanol, Specimen: Urine 30 mg/L, Determinant: Methanol, Specimen: Urine 15 mg/L, Determinant: Methanol (Background noise on non-exposed subjects, Non-specific (observed after the exposure to other subjects)), Specimen: Urine	Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4 Germany. TRGS 903, BAT List (Biological Limit Values) France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)
4-methylpentan-2-one		
	1 mg/L, Determinant: Isobutyl methyl ketone, Specimen: Urine 2 mg/L, Determinant: Isobutyl methyl ketone, Specimen: Urine	Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4 France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS,
	3.5 mg/L, Determinant: 4-methylpentan-2-one, Specimen: Urine	ND 2065) Germany. TRGS 903, BAT List (Biological Limit Values)
	20 µmol/L, Determinant: 4-methylpentan-2-one, Specimen: Urine	UK. EH40 Biological Monitoring Guidance Values (BMGVs)
Toluene		
	0.5 mg/L, Determinant: o-Cresol, Specimen: Urine 1.6 g/g Creatinine, Determinant: Hippuric acid, Specimen: Urine 0.05 mg/L, Determinant: Toluene, Specimen: Blood	Sweden
	600 μg/L, Determinant: Toluene, Specimen: Blood 1.5 mg/L, Determinant: o-Cresol (after hydrolysis), Specimen: Urine	Germany. TRGS 903, BAT List (Biological Limit Values)
	500 nmol/l, Determinant: Toluene concentration, Specimen: Blood	Finland. HTP-arvot, App 2, Biological Limit Values, (BRA/BGV), Social Affairs and Ministry of Health
	1 mg/L, Determinant: Toluene (semi-quantitative (ambiguous)), Specimen: Blood 2500 mg/g, Determinant: Hippuric acid (Background noise on non-exposed subjects, Non-specific (observed after the exposure to other subjects)), Specimen: Urine	France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)



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Biological Exposure Indices:

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065) Methanol (CAS # 67-56-1)

15 mg/L, Determinant: Methanol (Background noise on non-exposed subjects, Non-specific (observed after the exposure to other subjects)), Specimen: Urine

4-methylpentan-2-one (CAS # 108-10-1)

2 mg/L, Determinant: Methyl isobutyl ketone, Specimen: Urine

Germany, TRGS 903, BAT List (Biological Limit Values)

Methanol (CAS # 67-56-1)

30 mg/L, Determinant: Methanol, Specimen: Urine

4-methylpentan-2-one (CAS # 108-10-1)

3.5 mg/L, Determinant: 4-methylpentan-2-one, Specimen: Urine

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Methanol (CAS # 67-56-1)

15 mg/L, Determinant: Methanol, Specimen: Urine

4-methylpentan-2-one (CAS # 108-10-1)

1 mg/L, Determinant: Methyl isobutyl ketone, Specimen: Urine

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

4-methylpentan-2-one (CAS # 108-10-1)

20 µmol/L, Determinant: 4-methylpentan-2-one, Specimen: Urine

### Derived No Effect Level (DNEL):

(CAS 64-17-5) general population oral systemic effects long term exposure 87 mg/kg; general population inhalation systemic effects long term exposure 114 mg/m3; general population dermal systemic effects long term exposure 206 mg/kg bw/day; workers dermal systemic effects long term exposure 343 mg/kg; workers inhalation systemic effects long term exposure 950 mg/m3; general population inhalation local effects acute/short term exposure 950 mg/m3; workers inhalation local effects acute/short term exposure 1900 mg/m3

(CAS 67-56-1) general population dermal systemic effects long term exposure 4 mg/kg bw/day; general population dermal systemic effects acute/short term exposure 4 mg/kg bw/day; general population oral systemic effects long term exposure 4 mg/kg bw/day; general population oral systemic effects acute/short term exposure 4 mg/kg bw/day; workers dermal systemic effects long term exposure 20 mg/kg bw/day; workers dermal systemic effects acute/short term exposure 20 mg/kg bw/day; general population inhalation systemic effects long term exposure 26 mg/m3; general population inhalation local effects long term exposure 26 mg/m3; general population inhalation local effects acute/short term exposure 26 mg/m3); workers inhalation systemic effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3; workers inhalation local effects long term exposure 130 mg/m3; workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130 mg/m3); workers inhalation local effects long term exposure 130

(CAS 108-88-3) general population oral systemic effects long term exposure 8.13 mg/kg bw/day; general population inhalation systemic effects long term exposure 56.5 mg/m3; general population inhalation local effects long term exposure 56.5 mg/m3; workers inhalation systemic effects long term exposure 192 mg/m3); workers inhalation local effects long term exposure 192 mg/m3; general population inhalation systemic effects acute/short term exposure 226 mg/m3; general population inhalation local effects acute/short term exposure 226 mg/m3; general population dermal systemic effects long term exposure 226 mg/kg bw

## Predicted No Effect Concentration (PNEC):

(CAS 67-56-1) 20.8 mg/L (freshwater); 2.08 mg/L (marine water); 1540 mg/L(freshwater (intermittent releases); 77 mg/kg (sediment (freshwater); 7.7 mg/kg (sediment (marine water); 100 mg/L PNEC (sewage treatment); 100 mg/kg (soil)

(108-88-3) 0.68 mg/L (freshwater); 0.68 mg/L (marine water); 0.68 mg/L (freshwater (intermittent releases); 16.39 mg/kg (sediment (freshwater)); 16.39 mg/kg (sediment (marine water)); 13.61 mg/L (sewage treatment); 2.89 mg/kg C (soil)

(CAS 108-10-1) 0.6 mg/L (freshwater); 0.06 mg/L (marine water); 1.5 mg/L (freshwater (intermittent releases)); 8.27 mg/kg (sediment (freshwater); 0.83 mg/kg (sediment (marine water); 27.5 mg/L (sewage treatmen1); 1.3 mg/kg (soil)



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#### 8.2 Exposure controls

Ventilation and engineering measures

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: Provide adequate ventilation. Apply technical measures to comply with the

occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of

insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection**: In case of insufficient ventilation wear suitable respiratory equipment. The filter class

for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be

used. Advice should be sought from respiratory protection specialists.

**Skin protection**: Wear protective gloves. The suitability for a specific workplace should be discussed

with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived

from it. Depending on conditions of use, an impervious apron should be worn.

**Eye / face protection**: Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety

glasses with side shields. A full face shield may also be necessary. See also EN 166.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial

hygiene and safety practice.

#### 8.3 Environmental exposure controls

: Avoid release to the environment.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Physical state : Clear liquid.
Colour : Clear
Odour : Alcohol

Odour threshold : No information available. PH : No information available.

Flash point : 13°C

Flashpoint (Method) : Seta closed cup

Lower flammable limit (% by vol.)

4.3% (Ethanol)

Upper flammable limit (% by vol.)

: 36.5% (Methanol)

**Auto-ignition temperature** 

: No information available.

**Decomposition temperature** 

: No information available.

Oxidizing properties : None known.

**Explosive properties**: Not explosive Not expected to be sensitive to mechanical impact. Mixtures of vapour

and air at concentrations in the flammable range may be ignited by a static discharge

of sufficient energy.



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#### Initial boiling point and boiling range

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: 64 - 100°C

Melting/Freezing point : No information available.

Relative density : 0.82 Solubility in water : insoluble

Other solubility(ies) : No information available.

Vapour pressure : No information available.

Vapour density : > 1 (Air = 1)
Partition coefficient: n-octanol/water

: No information available.

Viscosity : ≥ 1 mm²/sec @ 25°C

**Evaporation rate (BuAe = 1)** 

: > 1 (butyl acetate = 1)

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : 92.9% Volatile organic Compounds (VOC's)

: 731 g/L

Other physical/chemical comments

: No additional information.

## SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity** : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents; Strong acids; Alkali metals; Strong bases

10.6 Hazardous decomposition products

: None known.

Burning produces obnoxious and toxic fumes. In the event of fire the following can be

released: Carbon oxides; formaldehyde; Nitrogen oxides (NOx)

## SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological effects:

Acute toxicity : This mixture is classified as hazardous in accordance with Regulation (EC) No

1272/2008. Classification:

Acute toxicity; Oral - Category 4. Harmful if swallowed.

Skin corrosion/Irritation : According to the classification criteria of the European Union, this product is not

considered as being a skin corrosive or irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not

considered as being an eye irritant.



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#### Respiratory or skin sensitisation

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: No data available to indicate product or components may be respiratory sensitizers.

No data available to indicate product or components may be skin sensitizers.

Germ cell mutagenicity

: Contains no ingredient listed as a mutagen.

Carcinogenicity

: Contains no ingredient listed as a carcinogen.

Reproductive toxicity STOT-single exposure

Contains no ingredient listed as toxic to reproduction.
This mixture is classified as hazardous in accordance with Regulation (EC) No

1272/2008. Classification:

Specific target organ toxicity, single exposure - Category 1. Causes damage to the optic nerves (eyes) if swallowed. Contains: Methanol. Methanol is known to cause

appreciable eye irritation, and possible blindness.

STOT-repeated exposure:

According to the classification criteria of the European Union, this product is not

expected to cause target organ toxicity through repeated exposures.

**Aspiration hazard** 

: According to the classification criteria of the European Union, this product is not

considered as being an aspiration hazard to humans.

Routes of exposure

Effects of acute exposure:

: Eve contact: Skin contact: Skin Absorption: Inhalation: Ingestion

Inhalation: May cause irritation of the mucous membranes. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other

symptoms of central nervous system depression.

Skin contact: May cause mild skin irritation. Exposure may cause temporary irritation, redness or discomfort. Product may be absorbed and cause symptoms similar to those

listed for ingestion.

Eye contact: May cause mild eye irritation. Exposure may cause temporary irritation,

redness or discomfort.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Affected person could experience a latent period of no symptoms, followed by blurred vision and possibly blindness. May cause blindness if swallowed - cannot be made non-poisonous.

## **Potential Chronic Health Effects**

: Repeated exposure may cause skin dryness or cracking.

#### 11.1.1 Acute Toxicity

Toxicological data

: No data is available on the product itself. The calculated ATE values for this mixture

ATE oral = 1782 mg/kg ATE dermal = 2334 mg/kg

ATE inhalation (vapours) = 24.4 mg/L/4H

See below for individual ingredient acute toxicity data.



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	LC50(4hr)	LD <sub>50</sub>	
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)
Toluene			
Ethanol	> 32 380 ppm (61 mg/L) (vapour)	7060 mg/kg	> 15 800 mg/kg
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour)	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)
4-methylpentan-2-one	3000 ppm (12.29 mg/L) (vapour)	2080 mg/kg	> 3000 mg/kg

#### 11.2 Information on other Hazards

: Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

11.2.1 Endocrine disrupting properties : none

11.2.2 Other hazards: None Known.

#### SECTION 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** : No data is available on the product itself. Should not be released into the environment.

See the following tables for individual ingredient ecotoxicity data.

### Ecotoxicity data:

les sons elles se és	040 11		Toxicity to Fish	
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Ethanol	64-17-5	> 100 mg/L (Fathead minnow)	No information available.	None.
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	446,7 mg/L/28-day (Fathead minnow) (QSAR)	None.
4-methylpentan-2-one	108-10-1	780 mg/L (Fathead minnow)	No information available.	None.
Toluene	108-88-3	5.4 mg/L (pink salmon)	1.4 - 4 mg/L	None.

<u>Ingredients</u>	CAS No	Тох	icity to Daphnia	
		EC50 / 48h	NOEC / 21 day	M Factor
Ethanol	64-17-5	5012 mg/L (Daphnia magna)	No information available.	None.
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.
4-methylpentan-2-one	108-10-1	> 200 mg/L (Daphnia magna)	30 mg/L	None.
Toluene	108-88-3	3.78 mg/L (Daphnia magna)	0.53 - 1 mg/L	None.



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<u>Ingredients</u>	CAS No	To	xicity to Algae	
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethanol	64-17-5	1000 mg/L/96hr (Green algae)	No information available.	None.
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	No information available.	None.
4-methylpentan-2-one	108-10-1	400 mg/L/96hr (Green algae)	No information available.	None.
Toluene	108-88-3	N/Av	10 mg/L/72hr (Green algae)	None.

#### 12.2 Persistence and degradability

The product itself has not been tested.

The following ingredients are considered to be readily biodegradable: Ethanol; Methanol; 4-methylpentan-2-one.

#### 12.3 Bioaccumulation potential

The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	Partition coefficient n-octanol/water (log	Bioconcentration factor (BCF)
	Kow)	
Ethanol (CAS 64-17-5)	- 0.31	No information available.
Methanol (CAS 67-56-1)	- 0.82 to - 0.64	< 10 (common carp)
4-methylpentan-2-one (CAS 108-10-1)	1.31	3.98

## 12.4 Mobility in soil

: The product itself has not been tested.

## 12.5 Results of PBT and vPvB assessment

: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

## 12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

#### 12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**12.8 Additional information**: None known or reported by the manufacturer.

#### SECTION 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste Treatment Methods:

**Handling for Disposal** 

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.



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#### **Methods of Disposal**

: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies.

Empty containers retain residue (liquid and/or vapour) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ADR/RID	UN1992	FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol; Methanol)	3	II	3
EU ADR/RID Classification Code	FT1 - Flamm	nable liquids, toxic			<u> </u>
EU ADR / RID Hazard Identification Number	336 - highly	flammable liquid, toxic			
ADR/RID Additional information		ed as LIMITED QUANTITY when transported in containers kg gross mass.  2(D/E)	s no larger than 1	.0 Litre, in p	packages not
ICAO/IATA	UN1992	Flammable liquid, toxic, n.o.s. (Ethanol; Methanol)	3	II	3
ICAO/IATA Additional information	Refer to ICAO	/IATA Packing Instruction	-		· • • • • • • • • • • • • • • • • • • •
IMDG	UN1992	FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol; Methanol)	3	II	3
IMDG Additional information	Consult the IN	IDG regulations for exceptions. EmS No. F-E,S-D	!		• • • • • • • • • • • • • • • • • • •

14.5 Environmental hazards :

This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

## 14.6 Special precautions for user

: Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.



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## SECTION 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended

Refer to restrictions found in REACH Annex XVII item 48. Refer to restrictions found in REACH Annex XVII item 69. Refer to restrictions found in REACH Annex XVII item 75.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

H3 STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE STOT SE Category 1

P5c FLAMMABLE LIQUIDS Methanol (CAS # 67-56-1)

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

Ethanol (CAS # 64-17-5) Methanol (CAS # 67-56-1)

4-methylpentan-2-one (CAS # 108-10-1)

Toluene (CAS # 108-88-3)

Directive 94/33/EC on the protection of young people at work:

Ethanol (CAS # 64-17-5)

Methanol (CAS # 67-56-1)

4-methylpentan-2-one (CAS # 108-10-1)

Toluene (CAS # 108-88-3)

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2023/707].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV:: Water contaminating class (Germany) - 1 (self classified)

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out by the Manufacturer of this product.



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#### SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures EC: European Community

EC50: Effective Concentration 50% ECHA: European Chemicals Agency EEC: European Economic Community

EINECS: European Inventory of Existing Commercial chemical Substances

EN: European Standard EU: European Union

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

PEL: Permissible exposure limit

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

**Information Source**: 1. Material Safety Data Sheet from manufacturer.

2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases

3. European Chemicals Agency, Classification Legislation

4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy)

: 30/03/2022

Reviewed Date SDS (dd/mm/yyyy)

26/01/2024

Revision No. : 4

Revision Information : 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY /

UNDERTAKING 8. EXPOSURE CONTROLS / PERSONAL PROTECTION 11. TOXICOLOGICAL INFORMATION 14. TRANSPORT INFORMATION 15.

**REGULATORY INFORMATION** 

Regulation and Procedure :



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Flammable.; Expert judgement
Acute toxicity; Acute toxicity estimate

Specific target organ toxicity, single exposure :Expert judgement

H-phrases (full-text)

H225 - Highly flammable liquid and vapour.

H301 - Toxic if swallowed.

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H370 - Causes damage to organs (a,b,c).

EUH066 - Repeated exposure may cause skin dryness or cracking.

#### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

#### Prepared for:

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