

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 13-8-2014 Revision date: 14-2-2023 Supersedes: 2-12-2022 version: 2.2

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

1.1. Product identifier

Product form : Mixture

Trade name : MPM Professional EGR & Intake Cleaner

UFI : 803K-T52W-D00T-CJSS

Product code : AD04000
Type of product : Additives
Vaporizer : Aerosol.
Product group : Blend

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

1.2.1. Relevant identified uses

Main use category : Professional use,Industrial use Industrial/Professional use spec : For professional use only

Use of the substance/mixture : Surfactants
Function or use category : Aerosol propellants

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company Cyclotronweg 1 2629 HN Delft - Nederland T +31 (0)15 2514030

info@mpmoil.nl - www.mpmoil.com

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aerosol, Category 1 H222;H229
Skin corrosion/irritation, Category 1, Sub-Category 1B H314
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
Aspiration hazard, Category 1 H304

Full text of H-statements: see section 16

H411

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label elements

CLP Signal word

Contains

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



: Danger.

. Dungon.

: Iso-butanol; Ammonia; Hydrocarbons, C9, aromatics

Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated. H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P210 - Keep away from open flames, sparks, hot surfaces. - No smoking.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear face protection, protective clothing, protective gloves, eye protection. P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do

GHS09

NOT induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container in accordance with local and national regulations.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C9, aromatics	CAS-No.: 128601-23-0 EC-No.: 918-668-5 REACH-no: 01-2119455851- 35	≥ 25 – ≤ 50	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Iso-butanol	CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1	≥ 10 – ≤ 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-butoxyethanol	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-	≥ 10 - ≤ 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
propane	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944- 21	≥ 2,5 - ≤ 10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Ammonia	CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2	≥ 5 – ≤ 10	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400
butane	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691- 32	≥ 1 – ≤ 2,5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
isobutane (containing ≥ 0,1% butadiene (203-450-8)) (Note K)	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-01-8	≥ 0,1 – ≤ 1	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

Specific concentration limits				
Name Product identifier Specific concentration limits				
Ammonia	CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2	(5 ≤C < 100) STOT SE 3, H335		

Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General : Remove the victim away from contaminated area.

After inhalation : Remove person to fresh air and keep comfortable for breathing.

After skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

After eye contact : Rinse cautiously with water for several minutes. If eye irritation persists: Get medical

advice/attention.

After ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Aspiration hazard. Go into open air and ventilate suspected area.

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

After inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

After skin contact : Repeated exposure may cause skin dryness or cracking.

After eye contact : Causes eye irritation.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

After ingestion

: Aspiration hazard. Ingestion may cause nausea, vomiting and diarrhea. Entering the lungs by ingestion or vomiting may cause severe lung damage.

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

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Symptoms of respiratory complications (lung oedema) may occur several hours after.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, powder, foam and CO2. Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases.

5.3. Advice for firefighters

Protection during firefighting

Other information

: Do not enter fire area without proper protective equipment, including respiratory protection.

: Cool containers / tanks with spray water if possible.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

Emergency procedures : Avoid contact with skin and eyes. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment : Wear respiratory protection.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local

legislation.

Other information : Provide adequate ventilation.

6.4. Reference to other sections

Information on safe handling - see Section 7. Information on personal protective equipment - see Chapter 8. Information on disposal - see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Additional hazards when processed : This product is not to be used under conditions of poor ventilation. Avoid aerosol formation.

: Keep away from sources of ignition - No smoking. Take precautionary measures against

static discharge.

Hygiene measures : Avoid all unnecessary exposure. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

14-2-2023 (Revision date) EN (English) 4/13

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Keep in a cool, well-ventilated

place away from heat. Keep only in the original container at a temperature not exceeding

the flash point.

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

cool

Heat and ignition sources : Protect from heat and direct sunlight. Information on mixed storage : May react violently with oxidants. Storage area

: Store according to local legislation. Special rules on packaging

: Keep only in original container.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

2-butoxyethanol (111-76-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOELV TWA (mg/m³)	98 mg/m³	
IOELV TWA (ppm)	20 ppm	
IOELV STEL (mg/m³) 246 mg/m³		
IOELV STEL (ppm) 50 ppm		
butane (106-97-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
OELV TWA (mg/m³) 1430 mg/m³		
IOELV TWA (ppm) 600 ppm		

8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

Additional information : Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture

(RCP method according to EH40) 1200mg/m3

8.1.5. Control banding

No additional information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available.

8.2.2. Personal protection equipment

Personal protective equipment:

At high vapor/gas concentration: gas mask with filter type AX. Gloves. Safety glasses.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Wear tight fitting safety glasses or facial screen

Eye protection			
Type Field of application Characteristics Standard			
Safety glasses	Use splash goggles when eye contact due to splashing is possible	With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Liquid Physical state : White. Colour : Aerosol can. Appearance : Characteristic. Odour Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : -44.5 °C : 240 °C Flammability

Explosive properties : Product is not explosive. In use, may form flammable/explosive vapour-air mixture.

Explosive limits : 0,7 – 12 vol %
Lower explosive limit (LEL) : Not available
Upper explosive limit (UEL) : Not available

Flash point : Not applicable as aerosol.

Auto-ignition temperature : No self ignition was observed up to the specified temperature

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Decomposition temperature : Not available pH : 10 @ 20°C

Viscosity, kinematic : ≤ 20,5 mm²/s @ 40°C Solubility : Insoluble in water.

Water: 15,7 %

Organic solvent:64,9 %

Log Kow : Not available Vapour pressure 4500 hPa @ 20°C Vapour pressure at 50°C Not available : 828 kg/m³ @ 20°C Density Relative density : Not available Relative vapour density at 20°C : Not available Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable

Particle size distribution : Not applicable
Particle shape : Not applicable
Particle aspect ratio : Not applicable
Particle aggregation state : Not applicable
Particle agglomeration state : Not applicable
Particle specific surface area : Not applicable
Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 113,5

9.2.2. Other safety characteristics

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

No additional information available.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

LD50 oral rat	Hydrocarbons, C9, aromatics (128601-23-0)			
LD50 dermal rabbit		2402 malka		
		7 7		
So-butanol (78-83-1)		7 7		
LD50 oral rat		> 6193 mg/l/4h		
LD50 dermal rabbit	Iso-butanol (78-83-1)			
ATE CLP (dermal) 2460 mg/kg bodyweight 2-butoxyethanol (111-76-2) LD50 oral rat 300 – 2000 mg/kg LD50 oral rat 300 – 2000 mg/kg LD50 dermal rat ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (vapours) ATE CLP (vapours	LD50 oral rat	2460 mg/kg		
ATE CLP (demal) 4200 mg/kg bodyweight 2-butoxyethanol (111-76-2) LD50 oral rat 300 – 2000 mg/kg LD50 demal rat 2 > 2000 mg/kg LD50 demal rat 300 mg/kg LD50 demal rat 300 mg/kg LD50 demal rat 4 > 2000 mg/kg bodyweight LD50 demal rat 4 400 mg/kg LC50 Inhalation - Rat (Vapours) 11 mg/l/4h ATE CLP (oral) 300 mg/kg bodyweight ATE CLP (gases) 4500 ppmv/4h ATE CLP (yapours) 11 mg/l/4h ATE CLP (vapours) 11 mg/l/4h ATE CLP (vapours) 11 mg/l/4h ATE CLP (vapours) 20 mg/l/4h ATE CLP (vapours) 50 mg/kg bodyweight butano (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 70 mg/l/4h ATE CLP (vapours) 70 mg/l/4	LD50 dermal rabbit	4200 mg/kg		
2-butoxyethanol (111-76-2) LD50 oral rat	ATE CLP (oral)	2460 mg/kg bodyweight		
LD50 oral rat 300 – 2000 mg/kg	ATE CLP (dermal)	4200 mg/kg bodyweight		
LD50 oral 300 mg/kg	2-butoxyethanol (111-76-2)			
LD50 dermal rat	LD50 oral rat	300 – 2000 mg/kg		
LD50 dermal rabbit	LD50 oral	300 mg/kg		
LC50 Inhalation - Rat (Vapours) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (gases) 4500 ppmv/4h ATE CLP (yapours) 11 mg/l/4h ATE CLP (wapours) 11 mg/l/4h ATE CLP (dust,mist) 1,5 mg/l/4h Propane (74-98-6) LC50 Inhalation - Rat (Vapours) 20 mg/l/4h ATE CLP (vapours) 350 mg/kg ATE CLP (oral) 350 mg/kg ATE CLP (oral) 506 mg/kg ATE CLP (oral) 507 mg/kg 508 mg/l/4h ATE CLP (vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation Causes severe skin burns. pH: 10 @ 20°C Respiratory or skin sensitisation Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation Not classified Additional information Cerm cell mutagenicity Not classified Reproductive toxicity Not classified Reproductive toxicity Not classified Tot-single exposure May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	LD50 dermal rat	> 2000 mg/kg bodyweight		
ATE CLP (oral) ATE CLP (dermal) ATE CLP (gases) 4500 pmw/4h ATE CLP (yapours) ATE CLP (vapours) ATE CLP (dust.mist) 1.5 mg/l/4h ATE CLP (dust.mist) 1.5 mg/l/4h ATE CLP (vapours) 20 mg/l/4h ATE CLP (vapours) 20 mg/l/4h ATE CLP (vapours) 20 mg/l/4h ATE CLP (vapours) ATE CLP (vapours) 20 mg/l/4h ATE CLP (vapours) ATE CLP (vapours) 500 mg/kg ATE CLP (oral) 500 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapo	LD50 dermal rabbit	400 mg/kg		
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ATE CLP (gases) ATE CLP (vapours) 11 mg/l/4h ATE CLP (dust,mist) 1,5 mg/l/4h propane (74-98-6) LC50 Inhalation - Rat (Vapours) 20 mg/l/4h ATE CLP (vapours) 20 mg/l/4h ATE CLP (vapours) 20 mg/l/4h Ammonia (1336-21-6) LD50 oral rat 350 mg/kg ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 858 mg/l/4h ATE CLP (oral) 568 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation Additional information Germ cell mutagenicity Not classified Carricogenicity Not classified Reproductive toxicity Total cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	ATE CLP (oral)	300 mg/kg bodyweight		
ATE CLP (vapours) ATE CLP (dust,mist) 1,5 mg/l/4h propane (74-98-6) LC50 Inhalation - Rat (Vapours) 20 mg/l/4h ATE CLP (vapours) 20 mg/l/4h Ammonia (1336-21-6) LD50 oral rat 350 mg/kg ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation Additional information Cerm cell mutagenicity Not classified Reproductive toxicity Total cause in the composition of the cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	ATE CLP (dermal)	400 mg/kg bodyweight		
ATE CLP (dust,mist) LC50 Inhalation - Rat (Vapours) 20 mg/l/4h ATE CLP (vapours) 20 mg/l/4h Ammonia (1336-21-6) LD50 oral rat 350 mg/kg ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation : Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation : Not classified Additional information Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.	ATE CLP (gases)	4500 ppmv/4h		
propane (74-98-6) LC50 Inhalation - Rat (Vapours) Ammonia (1336-21-6) LD50 oral rat ATE CLP (oral) 350 mg/kg ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation Respiratory or skin sensitisation Additional information Germ cell mutagenicity Not classified Additional information Germ cell mutagenicity Not classified Reproductive toxicity Not classified Reproductive toxicity Not classified Reproductive toxicity Not classified Reproductive toxicity Not classified May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	ATE CLP (vapours)	11 mg/l/4h		
LC50 Inhalation - Rat (Vapours) ATE CLP (vapours) 20 mg/l/4h Ammonia (1336-21-6) LD50 oral rat 350 mg/kg ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation : Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation Additional information : No t classified Additional information Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	ATE CLP (dust,mist)	1,5 mg/l/4h		
Ammonia (1336-21-6) LD50 oral rat 350 mg/kg ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation : Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation : Not classified Additional information : No sensitizing effect known Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	propane (74-98-6)			
Ammonia (1336-21-6) LD50 oral rat 350 mg/kg ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation : Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation Additional information : Not classified Additional information : No sensitizing effect known Gern cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	LC50 Inhalation - Rat (Vapours)	20 mg/l/4h		
LD50 oral rat ATE CLP (oral) 350 mg/kg bodyweight butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation : Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation : Not classified Additional information : No sensitizing effect known Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.	ATE CLP (vapours)	20 mg/l/4h		
ATE CLP (oral) butane (106-97-8) LC50 Inhalation - Rat (Vapours) 658 mg/l/4h ATE CLP (vapours) 658 mg/l/4h Skin corrosion/irritation : Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage ph: 10 @ 20°C Respiratory or skin sensitisation Additional information Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	Ammonia (1336-21-6)			
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LC50 Inhalation - Rat (Vapours) 658 mg/l/4h Skin corrosion/irritation Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation Respiratory or skin sensitisation No t classified Additional information No sensitizing effect known Germ cell mutagenicity Not classified Reproductive toxicity Not classified STOT-single exposure May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	ATE CLP (oral)	350 mg/kg bodyweight		
ATE CLP (vapours) Skin corrosion/irritation Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation : Not classified Additional information Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	butane (106-97-8)			
Skin corrosion/irritation : Causes severe skin burns. pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation : Not classified Additional information : No sensitizing effect known Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	LC50 Inhalation - Rat (Vapours)	658 mg/l/4h		
pH: 10 @ 20°C Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation : Not classified Additional information : No sensitizing effect known Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	ATE CLP (vapours)	658 mg/l/4h		
Serious eye damage/irritation : Assumed to cause serious eye damage pH: 10 @ 20°C Respiratory or skin sensitisation : Not classified Additional information : No sensitizing effect known Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	Skin corrosion/irritation :			
Respiratory or skin sensitisation : Not classified Additional information : No sensitizing effect known Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	Serious eye damage/irritation :			
Additional information : No sensitizing effect known Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	Deminster, and the consistent in	, =		
Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	·			
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Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation. Hydrocarbons, C9, aromatics (128601-23-0)	Carcinogenicity :			
Hydrocarbons, C9, aromatics (128601-23-0)	Reproductive toxicity :	Not classified		
	STOT-single exposure :	May cause drowsiness or dizziness. May cause respiratory irritation.		
STOT-single exposure May cause drowsiness or dizziness. May cause respiratory irritation.	Hydrocarbons, C9, aromatics (128601-23-0)			
	STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Iso-butanol (78-83-1)			
STOT-single exposure May cause drowsiness or dizziness. May cause respiratory irritation.			
Ammonia (1336-21-6)			
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure :	Not classified		
Iso-butanol (78-83-1)			
NOAEL (oral, rat, 90 days)	> 1450 mg/kg bodyweight OECD Guideline 408		
Aspiration hazard :	May be fatal if swallowed and enters airways.		
MPM Professional EGR & Intake Cleaner			
Vaporizer	Aerosol.		
Viscosity, kinematic	≤ 20,5 mm²/s @ 40°C		

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

: Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9, aromatics (128601-23-0)			
EC50 Daphnia 1	3,2 mg/l Daphnia magna)		
EC50 96h - Algae [1]	9,2 mg/l Oncorhynchus mykiss		
NOEC chronic algae	1 mg/l Pseudokirchneriella subcapitata)		
Iso-butanol (78-83-1)			
LC50 fish 1	1430 mg/l Pimephales promelas		
EC50 Daphnia 1	1100 mg/l Daphnia pulex		
NOEC (chronic) 20 mg/l @ 21d Daphnia magna			
2-butoxyethanol (111-76-2)			
LC50 fish 1	1490 mg/l Lepomis macrochirus		
EC50 Daphnia 1	> 1800 mg/l Daphnia magna		
EC50 72h - Algae [1]	> 911 mg/l Pseudokirchneriella subcapitata		
EC50 72h - Algae [2]	> 1840 mg/l Pseudokirchneriella subcapitata		
NOEC (chronic)	100 mg/l Daphnia magna Duration: @ 21d		
NOEC chronic fish	> 100 mg/l		

9/13 14-2-2023 (Revision date) EN (English)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Ammonia (1336-21-6)

LC50 fish 1 0,083 mg/l

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The product does not contain any substances with endocrine disrupting properties.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Container under pressure. Do not drill or burn even after use. Remove to an authorized waste treatment plant.

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number or ID number

UN-No. : UN 1950 UN-No. (IMDG) : UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS

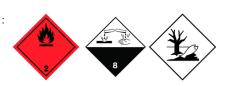
Transport document description (ADR) : UN 1950 AEROSOLS, 2.1 (8), (E), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.1 (8)
Danger labels (UN) : 2.1, 8



IMDG

Transport hazard class(es) (IMDG) : 2.1 (8)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Danger labels (IMDG) : 2.1, 8

:



14.4. Packing group

Packing group (ADR) : Not applicable Packing group (IMDG) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5FC
Limited quantities (ADR) : 1I
Transport category (ADR) : 2
Tunnel restriction code (ADR) : E

Transport by sea

Limited quantities (IMDG) : SP277
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No additional information available.

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
	Adverse effects on the environment caused by endocrine disrupting properties	Added		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Indication of changes			
Section	Changed item	Change	Comments
	Adverse health effects caused by endocrine disrupting properties	Added	
	Revision date	Modified	
	Supersedes	Modified	

Full text of H- and EUH-statements			
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aerosol 1	Aerosol, Category 1		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Gas 1A	Flammable gases, Category 1A		
Flam. Liq. 3	Flammable liquids, Category 3		
Press. Gas (Comp.)	Gases under pressure : Compressed gas		
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		
H220	Extremely flammable gas.		
H222	Extremely flammable aerosol.		
H226	Flammable liquid and vapour.		
H229	Pressurised container: May burst if heated.		
H280	Contains gas under pressure; may explode if heated.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H400	Very toxic to aquatic life.		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements	
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.