MPM Complete Diesel System Treatment

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 13-8-2014 Revision date: 3-4-2024 Supersedes: 14-2-2023 version: 4.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	MPM Complete Diesel System Treatment
UFI	:	CP3K-U5M2-U00S-N9F9
Product code	:	AD06000
Type of product	:	Additives
Product group	:	Mixture

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,Consumer use,Industrial use
Industrial/Professional use spec	:	Non-dispersive use Used in closed systems
Function or use category	:	Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
MPM International Oil Company BV
Cyclotronweg 1
2629 HN Delft - Nederland
T +31 (0)15 2514030
info@mpmoil.com - www.mpmoil.com

1.4. Emergency telephone number

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

Country	Organisation/Company	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)	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+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	+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]

Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS08 GHS09

CLP Signal word : Danger.

Contains : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P273 - Avoid release to the environment.
P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do NOT induce vomiting.
P391 - Collect spillage.
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

This mixture does not contain any substances that have been assessed as vPvB / PBT according to Regulation (EC) No, 1907/2006, Annex XIII. Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 substance(s) are 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, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.	EC-No.: 918-481-9 REACH-no: 01-2119457273-39	≥ 50 – ≤ 100	Asp. Tox. 1, H304
2-Ethylhexyl, Nitrate	CAS-No.: 27247-96-7 EC-No.: 248-363-6 REACH-no: 01-2119539586-27	≥ 5 – ≤ 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411
2-Ethylhexanol	CAS-No.: 104-76-7 EC-No.: 203-234-3 REACH-no: 01-2119487289-20	< 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General : In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible). If unconscious, place in the recovery position and seek medical advice. Never give an unconscious person water or anything like that.

After inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice.

After skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Do not use solvents or thinners.

After eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion : Immediately call a POISON CENTER/doctor. Vomiting: prevent asphyxia/aspiration pneumonia. Do NOT induce vomiting. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

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

After inhalation : Aspiration of the product into the lungs may cause very serious pneumonia. Symptoms of chemical pneumonia may appear after several hours.

After skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.

After eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. After adequate first aid, no further treatment is required unless symptoms reappear.

After ingestion : May result in aspiration into the lungs, causing chemical pneumonia.

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

Ingestion of large quantities: immediately to hospital. Keep under medical supervision for at least 48 hours.

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

Fire hazard : In case of fire and/or explosion do not breathe fumes.

Explosion hazard : Heating may cause a fire or explosion.

Reactivity in case of fire : Fire will develop dense smoke.

Hazardous decomposition products in case of fire : Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

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

Other information : On combustion, forms: carbon oxides (CO and CO2). On burning: release of (highly) toxic gases/vapours. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : If spilled, may cause the floor to be slippery.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

Emergency procedures : Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Safety glasses.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product 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 : Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it.

Other information : Spill area may be slippery. Use suitable disposal containers.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Handling temperature : < 40 °C

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a closed container.

Storage conditions : Keep container closed when not in use.

Storage temperature : ≤ 40 °C

Storage area : Store in dry, well-ventilated area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

2-Ethylhexyl, Nitrate (27247-96-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m³)	5,4 mg/m³ long term value
IOELV TWA (ppm)	1 ppm long term value
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	5,4 mg/m³ long term value
WEL TWA (ppm)	1 ppm long term value

2-Ethylhexanol (104-76-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-ethylhexan-1-ol
IOELV TWA (mg/m³)	5,4 mg/m³

2-Ethylhexanol (104-76-7)	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Ireland - Occupational Exposure Limits	
Local name	2-Ethylhexan-1-ol
OEL (8 hours ref) (mg/m³)	5,4 mg/m³
OEL (8 hours ref) (ppm)	1 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
United Kingdom - Occupational Exposure Limits	
Local name	2-ethylhexan-1-ol
WEL TWA (mg/m³)	5,4 mg/m³
WEL TWA (ppm)	1 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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 : Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures:
No additional information available.

8.2.2. Personal protection equipment

Personal protective equipment:
Gloves. Safety glasses.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Safety goggles

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					
Type	**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

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid.
Colour	:	Amber.
Odour	:	Characteristic.
Odour threshold	:	Solvent
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	0,6 – 7 vol %
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 61 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not determined.
Viscosity, kinematic	:	< 7 mm²/s (40°C)
Solubility	:	Material insoluble in water.
Log Kow	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	810 kg/m³ @ 20°C
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 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

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No naked flames, sparks, and do not smoke.

10.5. Incompatible materials

Strong oxidizing agent. Acids and bases.

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

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 4951 mg/m³ @ 4h

2-Ethylhexyl, Nitrate (27247-96-7)	
LD50 oral rat	> 960 ml/kg
LD50 dermal rabbit	4820 µg/kg
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	4,82 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

2-Ethylhexanol (104-76-7)	
LD50 oral rat	2049 mg/kg
LD50 dermal rabbit	1970 mg/kg
LC50 Inhalation - Rat	2,5 mg/l/4h
ATE CLP (oral)	2049 mg/kg bodyweight
ATE CLP (dermal)	1970 mg/kg bodyweight
ATE CLP (vapours)	2,5 mg/l/4h

2-Ethylhexanol (104-76-7)	
ATE CLP (dust,mist)	2,5 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)
pH: Not determined.

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)
pH: Not determined.

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)

2-Ethylhexanol (104-76-7)	
NOAEL (chronic, oral, animal/male, 2 years)	750 mg/kg bodyweight

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)

2-Ethylhexanol (104-76-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)

2-Ethylhexyl, Nitrate (27247-96-7)	
NOAEL (dermal, rat/rabbit, 90 days)	500 mg/kg bodyweight EPA OPP 82-2 (21/28 D)

2-Ethylhexanol (104-76-7)	
NOAEC (inhalation, rat, gas, 90 days)	120 ppm OECD Guideline 413

Aspiration hazard : May be fatal if swallowed and enters airways.

MPM Complete Diesel System Treatment	
Viscosity, kinematic	< 7 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 substance(s) are 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

Ecology - water : Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.	
LC50 fish 1	> 100 mg/l @96h Oncorhynchus mykiss
EC50 Daphnia 1	> 100 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	> 100 mg/l @72h Pseudokirchneriella subcapitata

2-Ethylhexyl, Nitrate (27247-96-7)	
LC50 fish 1	2 mg/l @96h fish
EC50 Daphnia 1	12,6 mg/l @48h Daphinia magna
EC50 other aquatic organisms 1	12,6 mg/l @72h Algae
EC50 72h - Algae [1]	3,22 mg/l pseudokirchneriella subcapitata
EC50 72h - Algae [2]	1,57 mg/l Pseudokirchneriella subcapitata

2-Ethylhexanol (104-76-7)	
LC50 fish 1	17,1 mg/l @96h Leuciscus idus
LC50 fish 2	17,1 mg/l leuciscus idus melanotus
EC50 Daphnia 1	39 mg/l @48h Dapnia magna
EC50 other aquatic organisms 1	11,5 mg/l @72h Algae Scenedesmus subspicatus
EC50 72h - Algae [1]	28,2 mg/l pimephales promelas
EC50 72h - Algae [2]	16,6 mg/l Desmodesmus subspicatus

12.2. Persistence and degradability

2-Ethylhexanol (104-76-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 95 % @5d

12.3. Bioaccumulative potential

MPM Complete Diesel System Treatment	
Bioaccumulative potential	Based on available data, the classification criteria are not met.

2-Ethylhexyl, Nitrate (27247-96-7)	
Bioconcentration factor (BCF REACH)	1332
Log Pow	4,5 – 5,26

2-Ethylhexanol (104-76-7)	
Bioconcentration factor (BCF REACH)	25,33
Log Kow	2,9

12.4. Mobility in soil

MPM Complete Diesel System Treatment	
Soil	No data available.

2-Ethylhexyl, Nitrate (27247-96-7)	
Log Koc	3,8

12.5. Results of PBT and vPvB assessment

MPM Complete Diesel System Treatment

This mixture does not contain any substances that have been assessed as vPvB / PBT according to Regulation (EC) No, 1907/2006, Annex XIII.

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

Other adverse effects : The product contains ecotoxic substances, which can have harmful side effects for aquatic organisms,The product contains substances that can cause undesirable long-term side effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.

European List of Waste (LoW, EC 2000/532) : 07 02 15 - wastes from additives other than those mentioned in 07 02 14

HP Code : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number or ID number

UN-No. : UN 3082

UN-No. (IMDG) : UN 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE ; Complete Diesel System Treatment)

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE ; Complete Diesel System Treatment)

Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE ; Complete Diesel System Treatment), 9, III, (-)

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE ; Complete Diesel System Treatment), 9, III, MARINE POLLUTANT

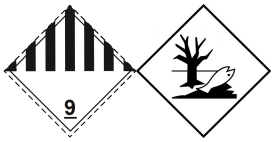
14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9

Danger labels (UN) : 9

:



IMDG

Transport hazard class(es) (IMDG) : 9

Danger labels (IMDG) : 9

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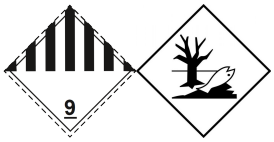

14.4. Packing group

Packing group (ADR)	:	III
Packing group (IMDG)	:	III

14.5. Environmental hazards

Dangerous for the environment	:	Yes
Marine pollutant	:	Yes
Other information	:	No dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Special transport precautions	:	Not applicable

Overland transport

Classification code (ADR)	:	M6
Limited quantities (ADR)	:	5l
Transport category (ADR)	:	3
Orange plates	:	90 3082
Tunnel restriction code (ADR)	:	-

Transport by sea

Limited quantities (IMDG)	:	5 L
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-F

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)

Directive 2012/18/EU (SEVESO III)

Seveso Additional information	:	E2 - ENVIRONMENTAL HAZARDS, Threshold (Column 2): 200 tons / (Column 3): 500 tons

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
	Supersedes	Modified	
	Revision date	Modified	
	Seveso Additional information	Added	
	Proper Shipping Name (RID)	Added	
	Packing group (RID)	Added	
	Danger labels (ADN)	Added	
	Proper Shipping Name (IMDG)	Added	
	Limited quantities (IMDG)	Added	
	EmS-No. (Spillage)	Added	
	EmS-No. (Fire)	Added	
	Proper Shipping Name (IATA)	Added	
	Danger labels (IMDG)	Added	
	Danger labels (ICAO)	Added	
	UN-No. (RID)	Added	
	Supplemented N.O.S. Proper Shipping Name (IATA)	Modified	(2-ethylhexyl nitrate)
1.1	UFI on SDS 1.1	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Modified	
4.1	General	Modified	
4.1	After skin contact	Modified	
4.1	After inhalation	Modified	
4.1	After ingestion	Modified	
4.1	After eye contact	Modified	
4.2	After skin contact	Modified	
4.2	After inhalation	Modified	
4.2	After ingestion	Modified	
4.2	After eye contact	Modified	
4.3	Treatment	Modified	
5.1	Unsuitable extinguishing media	Modified	
5.1	Suitable extinguishing media	Modified	
5.2	Reactivity in case of fire	Added	
5.2	Hazardous decomposition products in case of fire	Added	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
5.2	Explosion hazard	Added	
5.2	Fire hazard	Modified	
5.3	Firefighting instructions	Added	
5.3	EAC code	Added	
5.3	Precautionary measures fire	Modified	
5.3	Other information	Modified	
6.1	Protective equipment	Added	
6.1	Protective equipment	Added	
6.1	Emergency procedures	Added	
6.1	General measures	Modified	
6.2	Environmental precautions	Modified	
6.3	Other information	Added	
6.3	Methods for cleaning up	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Additional hazards when processed	Added	
7.1	Handling temperature	Added	
7.1	Precautions for safe handling	Modified	
7.1	Hygiene measures	Modified	
7.2	Storage temperature	Added	
7.2	Technical measures	Modified	
7.2	Storage conditions	Modified	
7.2	Storage area	Modified	
7.2	Prohibitions on mixed storage	Removed	
8.1	Additional information	Modified	
8.2	Personal protective equipment	Modified	
8.2	Respiratory protection	Modified	
8.2	Technical measures	Modified	
9.1	Viscosity, dynamic	Removed	
9.1	Relative vapour density at 20°C	Removed	
9.1	Relative density of saturated gas/air mixture	Removed	
9.1	Relative density	Removed	
9.1	Auto-ignition temperature	Removed	
9.1	Oxidising properties	Removed	
9.1	Decomposition temperature	Removed	
9.1	Flammability (solid, gas)	Removed	
9.1	Vapour pressure	Removed	
9.1	Explosive properties	Removed	
10.1	Reactivity	Modified	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Modified	
14.1	UN-No. (ADN)	Added	
14.1	UN-No.	Added	
14.1	UN-No. (IMDG)	Added	
14.1	UN-No. (ICAO)	Added	
14.2	Proper Shipping Name (ADN)	Added	
14.2	Proper Shipping Name (ADR)	Added	
14.3	Danger labels (UN)	Added	
14.3	Class (ADR)	Added	
14.3	Danger labels (RID)	Added	
14.4	Packing group (ADN)	Added	
14.4	Packing group (IMDG)	Added	
14.4	Packing group (IATA)	Added	
14.4	Packing group (UN)	Added	
14.6	Classification code (ADR)	Added	
14.6	Hazard identification number (Kemler No.)	Added	
14.6	Transport category (ADR)	Added	
14.6	Limited quantities (ADR)	Added	
14.6	Tunnel restriction code (ADR)	Added	

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 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Full text of H- and EUH-statements	
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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.