



Penetrating Oil Aerosol

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 12-11-2019 Revision date: 25-11-2020 Supersedes: 8-10-2020 version: 61.3

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

1.1. Product identifier

Product form : Mixture
Product name : Penetrating Oil Aerosol
Product code : A200
Type of product : Aerosol
Vaporizer : Aerosol

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
Use of the substance/mixture : This penetrating oil is a powerfully penetrating rust-loosening fluid that penetrates under the rust layer formed on rusted-on metal parts. Suitable for bolts, nuts and screws and also pipe and valve couplings, hinges, locks, chains, joints and sliding parts. Stops squeaking and creaking. Prevents rust and corrosion formation.
Function or use category : Lubricants and additives

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 Delft - Nederland
T +31 (0)15 2514030 - F +31 (0)15 2514031
msds@mpmoil.nl - www.mpmoil.nl

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	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
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]

Aerosol, Category 1 H222;H229
Aspiration hazard, Category 1 H304
Full text of H 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) :



GHS02

CLP Signal word : Danger.
Hazardous ingredients : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.

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Hazard statements (CLP)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H304 - May be fatal if swallowed and enters airways.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501 - Dispose of contents and container to an approved waste disposal plant. P300 - Without adequate ventilation formation of explosive mixtures may be possible.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.
Extra phrases	: CONTAINS: Coumarin, <5%. Hydrocarbons, aliphatic, >30%.

2.3. Other hazards

No additional information available

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.	(CAS-No.) 1174522-09-8 (EC-No.) 918-481-9 (REACH-no) 01-2119457273-39	50 – 100	Asp. Tox. 1, H304
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	2,5 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Carbon dioxide	(CAS-No.) 124-38-9 (EC Index-No.) 204-696-9	1 – 2,5	Press. Gas (Comp.), H280

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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.
After eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
After ingestion	: Do NOT induce vomiting. Get immediate medical advice/attention.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Carbon dioxide. Dry powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: On heating/burning: release of (highly) toxic gases/vapours e.g.: carbon monoxide - carbon dioxide. May form flammable/explosive vapour-air mixture.
Explosion hazard	: Heat from a fire could result in drum bursting. Vapours may form explosive mixture with air.

5.3. Advice for firefighters

Protection during firefighting	: Self-contained breathing apparatus with an air line.
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Other information : Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection. Use a water spray to cool exposed surfaces and to protect fire-fighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and eye/face protection. Wear respiratory protection.
Emergency procedures : Ventilate well.

6.1.2. For emergency responders

Protective equipment : Wear respiratory protection. Wear suitable protective clothing and eye/face protection.

6.2. Environmental precautions

Avoid release to the environment. 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 : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).

Other information : Ensure adequate ventilation.

6.4. Reference to other sections

Information on disposal - see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. Avoid contact with skin and eyes. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a closed container. Ensure adequate ventilation, especially in confined areas.

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Information on mixed storage : Observe official regulations on storing packagings with pressurized containers.

Storage area : Keep in a cool, well-ventilated place. Store in a closed container. Local regulations concerning the storage and handling of water pollutants to be followed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-butoxyethanol (111-76-2)		
EU	IOELV TWA (mg/m ³)	98 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	246 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
Germany	TRGS 910 Acceptable concentration notes	

Carbon dioxide (124-38-9)

EU	IOELV TWA (mg/m ³)	9000 mg/m ³
EU	IOELV TWA (ppm)	5000 ppm
Germany	TRGS 910 Acceptable concentration notes	

8.2. Exposure controls

Technical measures:

Ensure good ventilation of the work station.

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Personal protective equipment:

Safety glasses. Gloves.

Materials for protective clothing:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Hand protection:

Wear suitable gloves resistant to chemical penetration

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	≥ 0.45 mm		

Eye protection:

Safety goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Device	Filter type	Condition	Standard
Disposable half mask	Type AX - Low-boiling (<65 °C) organic compounds	Short term exposure	
Self-contained breathing apparatus (SCBA)		Long term exposure	

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke when using this product. Take off contaminated clothing. Always wash hands after handling the product. Avoid inhalation of vapours. Avoid contact with skin.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol can.
Colour	: light yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not determined.
Freezing point	: Not determined.
Boiling point	: Not determined.
Flash point	: Not applicable as aerosol.
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 3000 hPa @ 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 819 g/l
Solubility	: Water: Practically insoluble Organic solvent: 81,9 %
Log Pow	: No data available

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 592 g/l
Other properties	: Product is not explosive. They may form explosive mixtures with air.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep cool. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Aldehydes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

2-butoxyethanol (111-76-2)

LD50 oral rat	300 – 2000 mg/kg
LD50 oral	300 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	400 mg/kg
LC50 Inhalation - Rat (Vapours)	11 mg/l/4h

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics. (1174522-09-8)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 4951 mg/m ³ @ 4h

Skin corrosion/irritation	: Not classified
Additional information	: slightly irritant but not relevant for classification.
Serious eye damage/irritation	: Not classified
Additional information	: Not an irritant.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

2-butoxyethanol (111-76-2)

NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
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Aspiration hazard	: May be fatal if swallowed and enters airways.
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Vaporizer	Aerosol
Potential adverse human health effects and symptoms	: Irritating. May be narcotic.

SECTION 12: Ecological information

12.1. Toxicity

General	: Do not allow into drains or water courses.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

2-butoxyethanol (111-76-2)

LC50 fish 1	1490 mg/l <i>Lepomis macrochirus</i>
EC50 Daphnia 1	≈ 1800 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h algae (1)	911 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h algae (2)	1840 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
NOEC (chronic)	100 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC chronic fish	> 100 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>) Duration: '21 d'

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics. (1174522-09-8)

LC50 fish 1	> 100 mg/l @96h <i>Oncorhynchus mykiss</i>
EC50 Daphnia 1	> 100 mg/l @48h <i>Daphnia magna</i>
EC50 other aquatic organisms 1	> 100 mg/l @72h <i>Pseudokirchneriella subcapitata</i>

12.2. Persistence and degradability

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics. (1174522-09-8)

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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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. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Do not dispose of with domestic waste.
Waste disposal recommendations	: Remove to an authorized waste treatment plant.
Waste materials	: Conform to current legislation, regulations and orders.
European List of Waste (LoW) code	: 15 01 04 - metallic packaging 16 05 04* - gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information



In accordance with ADR / IMDG

ADR	IMDG
14.1. UN number	
UN 1950	UN 1950
14.2. UN proper shipping name	
AEROSOLS	AEROSOLS

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Transport document description	
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)	
2.1	2.1
	
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No
No supplementary information available	

14.6. Special precautions for user

Overland transport

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

Transport by sea

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

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 592 g/l

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
9.2	VOC content	Removed	
15.1	VOC content	Removed	

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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
Aerosol 1	Aerosol, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H222	Extremely flammable aerosol.
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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.