



Brake Cleaner Aerosol

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date: 17-7-2018 Supersedes: 3-6-2014 version: 27.2

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

1.1. Product identifier

Product form : Mixture
 Product name : Brake Cleaner Aerosol
 Product code : A100
 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
 Use of the substance/mixture : This brake cleaner is a very powerful cleaner and degreaser for a wide range of purposes. MPM Brake Cleaner is above all extremely suitable for removing brake fluid, grease, dirt and oil from brake parts.
 Use of the substance/mixture : Automotive care products

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 - F +31 (0)15 2514031
info@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
 Skin corrosion/irritation, Category 2 H315
 Serious eye damage/eye irritation, Category 2 H319
 Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
 Aspiration hazard, Category 1 H304
 Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP) :



CLP Signal word : Danger

Hazardous ingredients : Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane; acetone, propan-2-one, propanone.

Hazard statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

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.
P261 - Avoid breathing spray, vapours.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, eye protection, face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P391 - Collect spillage.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
P501 - Dispose of contents/container to officially registered waste disposal company.
P300 - Without adequate ventilation formation of explosive mixtures may be possible.

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, C7, n-alkanes, isoalkanes, cycloalkanes	(EC-No.) 927-510-4 (EC Index-No.) 01-2119475515-33-xxxx	25 - 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane	(EC-No.) 01-2119475514-35-xxxx (EC Index-No.) 921-024-6	25 - 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
acetone, propan-2-one, propanone.	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49	20 - 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Carbon dioxide	(CAS-No.) 124-38-9 (EC Index-No.) 204-696-9	2,5 - 10	Press. Gas (Comp.), H280
isobutane	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119485395-27	2,5 - 10	Flam. Gas 1, H220 Press. Gas (Comp.), H280
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	Flam. Gas 1, H220 Press. Gas (Comp.), H280

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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 : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
- After eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
- After ingestion : Do NOT induce vomiting. Get immediate medical advice/attention.

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

- After inhalation : Vapours may cause drowsiness and dizziness.
- After skin contact : Irritating to skin.
- After eye contact : Eye irritation.

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. Powder. Carbon dioxide (CO₂).
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

- Protection during firefighting : Self-contained breathing apparatus with an air line.
- Other information : Cool containers / tanks with spray water if possible. Do not allow water used to extinguish fire to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Keep public away. Keep away from sources of ignition - No smoking.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing and eye/face protection. Wear respiratory protection.
- Emergency procedures : Provide adequate ventilation.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Notify authorities if liquid enters sewers or public waters. Do not flush into surface water or sewer system. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Prevent spreading over great surfaces (e.g. by damming or installing oil booms).
- 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. Take precautionary measures against static discharge. 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 : When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

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

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Storage conditions	: Protect from heat and direct sunlight.
Information on mixed storage	: Observe official regulations on storing packagings with pressurized containers.
Storage area	: Keep container tightly closed in a cool, well-ventilated place. Store according to local legislation.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)		
EU	IOELV TWA (mg/m ³)	9000 mg/m ³
EU	IOELV TWA (ppm)	5000 ppm
acetone, propan-2-one, propanone. (67-64-1)		
EU	IOELV TWA (mg/m ³)	1210 mg/m ³
EU	IOELV TWA (ppm)	502 ppm
EU	IOELV STEL (mg/m ³)	2420 mg/m ³
EU	IOELV STEL (ppm)	1004 ppm

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses.

Materials for protective clothing:

Suitable material: Butyl rubber. >= 0,8 mm

Hand protection:

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Butyl rubber	3 (> 60 minutes)	>0.7 mm		EN 374

Eye protection:

Tightly sealed safety glasses.

Type	Use	Characteristics	Standard
			EN 166

Skin and body protection:

Wear suitable protective clothing.

Type	Standard
	EN 13034

Respiratory protection:

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. Type AX



Other information:

When using do not eat, drink or smoke. Wash hands before breaks and at the end of work. Do not breathe vapour or spray. Avoid contact with skin and eyes. Remove/Take off immediately all contaminated clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: colourless.
Odour	: Benzine.

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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)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 712 g/l
Solubility	: Water: partially miscible Organic solvent:96,7 %
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 688,4 g/l

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/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

propane (74-98-6)	
LC50 inhalation rat (Vapours - mg/l/4h)	20 mg/l/4h
isobutane (75-28-5)	
LC50 inhalation rat (Vapours - mg/l/4h)	> 50 mg/l/4h
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2920 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 23,3 mg/l/4h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane	
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2920 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	< 25,2 mg/l/4h

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acetone, propan-2-one, propanone. (67-64-1)	
LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	7400 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	76 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

Brake Cleaner Aerosol	
Vaporizer	Aerosol

Potential adverse human health effects and symptoms	: Irritating. May be narcotic.
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SECTION 12: Ecological information

12.1. Toxicity

General	: Do not release in groundwater, surfacewater or sewerage. Danger of drinking-water pollution (ground water).
Ecology - water	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
LC50 fish 1	14,3 mg/l
EC50 Daphnia 1	3 mg/l 48h
EC50 Daphnia 2	0,23 mg/l
EC50 72h algae (1)	10 - 30 mg/l
NOEC (chronic)	0,17 mg/l
NOEC chronic fish	1534 mg/l 28d
NOEC chronic algae	0,1 mg/l 72h

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane	
LC50 fish 1	12 mg/l
EC50 Daphnia 1	3 mg/l 48h
EC50 Daphnia 2	0,23 - 1,6 mg/l 21d
EC50 72h algae (1)	26 mg/l
NOEC (chronic)	0,17 mg/l Daphnia Magna 21 d
NOEC chronic fish	2,045 mg/l 28d

acetone, propan-2-one, propanone. (67-64-1)	
EC50 Daphnia 1	8800 mg/l 48h

12.2. Persistence and degradability

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
Persistence and degradability	Biodegradation in water. Readily biodegradable. 81-98 % % biodegradation (O2 consumption),28d.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane	
Persistence and degradability	Biodegradation in water. Readily biodegradable. 81-98% % biodegradation (O2 consumption), 28d.

12.3. Bioaccumulative potential

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
Bioaccumulative potential	No data available.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane	
Bioaccumulative potential	No data available.

12.4. Mobility in soil

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
Soil	No data available.

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane	
Soil	No data available.

12.5. Results of PBT and vPvB assessment

Component	
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes ()	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% of n-hexane ()	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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	: Waste disposal according to official state regulations.
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	
1950	1950
14.2. UN proper shipping name	
AEROSOLS	AEROSOLS
Transport document description	
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
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 : Yes	Dangerous for the environment : Yes Marine pollutant : Yes
No supplementary information available	

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: 5F
Limited quantities (ADR)	: 11
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

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Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 688,4 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

	Revision date	Modified	
3	Composition/information on ingredients	Added	

Full text of H- and EUH-statements:

Aerosol 1	Aerosol, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

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