



Chain Spray Aerosol

Safety Data Sheet

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

Revision date: 19-5-2017 version: 38.0

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

1.1. Product identifier

Product form : Mixture
 Product name : Chain Spray Aerosol
 Product code : A202
 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 : 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 | 0870 243 2241 | |

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
 Serious eye damage/eye irritation, Category 2 H319
 Skin sensitisation, Category 1 H317
 Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
 Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful: may cause lung damage if swallowed.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

CLP Signal word :

Danger

Hazard statements (CLP) :

H222 - Extremely flammable aerosol
 H229 - Pressurised container: May burst if heated.
 H317 - May cause an allergic skin reaction

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| | |
|--------------------------------|---|
| Precautionary statements (CLP) | H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects : 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 vapours, spray P280 - Wear protective gloves, eye protection, face shield. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 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] |
|---|--|----------|--|
| isobutane | (CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119485395-27 | 20 - 25 | 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 | 10 - 20 | Flam. Gas 1, H220 Press. Gas (Comp.), H280 |
| butane | (CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32 | 2,5 - 10 | Flam. Gas 1, H220 Press. Gas (Comp.), H280 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes | (EC-No.) 927-510-4 (EC Index-No.) 01-2119475515-33-xxxx | 2,5 - 10 | 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 | 2,5 - 10 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Sulfone-acids, alkane-, sodiumsalts | (CAS-No.) 68608-26-4 (EC-No.) 301-210-8 | 1 - 2,5 | Eye Dam. 1, H318 |
| Calciumpetroleumsulfonaat | (EC-No.) 263-093-9 | 1 - 2,5 | Skin Irrit. 2, H315 |

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

No additional information available

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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 : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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.

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

| butane (106-97-8) | | |
|-------------------|--------------------------------|------------------------|
| EU | IOELV TWA (mg/m ³) | 1430 mg/m ³ |
| EU | IOELV TWA (ppm) | 600 ppm |

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8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses.

Materials for protective clothing:

Suitable material: nitrile rubber. Thickness of glove material: ≥ 0.45 mm

Hand protection:

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

Eye protection:

Tightly sealed safety glasses.

Skin and body protection:

Wear suitable protective clothing.

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 | : yellow. |
| Odour | : Benzine. |
| 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 | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 686 g/l |
| Solubility | : Water: not miscible Organic solvent: 52,8 % |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Product is not explosive. In use, may form flammable/explosive vapour-air mixture. |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

| | |
|------------------|---|
| VOC content | : 361,9 g/l |
| Other properties | : Product is not explosive. Vapours may form explosive mixtures with air. |

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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. aldehydes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| isobutane (75-28-5) | |
|---|----------------|
| LC50 inhalation rat (Vapours - mg/l/4h) | > 50 mg/l/4h |
| propane (74-98-6) | |
| LC50 inhalation rat (Vapours - mg/l/4h) | 20 mg/l/4h |
| butane (106-97-8) | |
| LC50 inhalation rat (Vapours - mg/l/4h) | 658 mg/l/4h |
| Sulfone-acids, alkane-. sodiumsalts (68608-26-4) | |
| LD50 oral rat | > 5000 mg/kg |
| Calciumpetroleumsulfonaat | |
| LD50 oral rat | > 2000 mg/kg |
| 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 |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Additional information : May be narcotic

| Chain Spray Aerosol | |
|----------------------------|---------|
| Vaporizer | Aerosol |

Potential adverse human health effects and symptoms : Irritating. May be narcotic.

SECTION 12: Ecological information

12.1. Toxicity

General : Do not release in groundwater, surfacewater or sewerage. Danger of drinking-water pollution (ground water).

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Ecology - water : Harmful to aquatic organisms.

| 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 |

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. |

| 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 |

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| ADR | IMDG |
|--|---|
| 14.2. UN proper shipping name | |
| AEROSOLS | AEROSOLS |
| 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) : 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

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 361,9 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:

| | | | |
|--|-----------------------------|---------|--|
| | Additional information | Added | |
| | Proper Shipping Name (IMDG) | Added | |
| | EmS-No. (Spillage) | Added | |
| | EmS-No. (Fire) | Added | |
| | Proper Shipping Name (IATA) | Added | |
| | Danger labels (IMDG) | Added | |
| | Additional information | Removed | |

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| | | | |
|------|---|----------|--|
| | Additional information | Removed | |
| | Revision date | Modified | |
| | Vaporizer | Added | |
| | SDS EU format | Modified | |
| 2.1 | Adverse physicochemical, human health and environmental effects | 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 | |
| 3 | Composition/information on ingredients | Modified | |
| 8.2 | Respiratory protection | Modified | |
| 8.2 | Personal protective equipment | Modified | |
| 9.1 | Physical state | Removed | |
| 9.2 | VOC content | Added | |
| 14.6 | Limited quantities (ADR) | Added | |
| 14.6 | Limited quantities (ADR) | Removed | |
| 15.1 | VOC content | Added | |
| 15.2 | Chemical safety assessment | 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 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| 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 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 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| 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 |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful 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