



Chain Spray Aerosol

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 25-11-2020 Revision date: 25-11-2020 Supersedes: 19-5-2017 version: 38.1

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

1.1. Product identifier

Product form : Mixture
Product name : Chain Spray Aerosol
UFI : 5JGS-S0T0-Q5CS-94G9
Product code : A202
Type of product : aerosol
Vaporizer : aerosol
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
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 Delft - Nederland
T +31 (0)15 2514030 - F +31 (0)15 2514031
support@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	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]

Aerosol, Category 1 H222;H229
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of 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.

Hazardous ingredients

: Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

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Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H317 - May cause an allergic skin reaction.
H412 - Harmful 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.
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.
P280 - Wear protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
P501 - Dispose of contents/container to a hazardous or special waste collection point.

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]
propane (Note U)	(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 1A, H220 Press. Gas (Comp.), H280
butane (Note C)(Note U)	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32	≥ 10 – ≤ 20	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
isobutane (Note C)(Note U)	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119485395-27	≥ 5 – ≤ 10	Flam. Gas 1A, 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 Acute 1, H400 Aquatic Chronic 2, H411
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	(EC-No.) 921-024-6 (REACH-no) 01-2119475514-35	≥ 2,5 – ≤ 5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	(EC-No.) 939-603-7 (REACH-no) 01-2119978241-36	≥ 1 – ≤ 2,5	Skin Sens. 1, H317
Sulfone-acids, alkane-, sodiumsalts	(CAS-No.) 68608-26-4 (EC-No.) 301-210-8	≥ 1 – ≤ 2,5	Eye Irrit. 2, H319

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H- and EUH-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.

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After ingestion : Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/effects : May be harmful if inhaled. May be narcotic. Blackout. Cough. Nausea.

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 : May form flammable/explosive vapour-air mixture. Contains gas under pressure; may explode if heated. Nitrogen oxides.

Explosion hazard : Heat from a fire could result in drum bursting. May form an explosive mixture in the presence of air.

5.3. Advice for firefighters

Protection during firefighting : Self-contained breathing apparatus with an air line.

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 : Provide adequate ventilation.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye/face protection. Wear respiratory 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 : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean with the help of detergents.

Other information : Provide 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 : Do not pierce or burn, even after use. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Keep away from heat and direct sunlight.

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 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 : Store according to local legislation. Keep in a cool, well-ventilated place. Store in a closed container.

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
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butane (106-97-8)

EU	IOELV TWA (ppm)	600 ppm
Germany	Notes	

8.2. Exposure controls

Personal protective equipment:

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

Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

Hand protection:

Wear suitable gloves resistant to chemical penetration

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.45		

Eye protection:

Protective goggles

Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Type AX

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke when using this product. Take off contaminated clothing. Do not eat, drink or smoke during use. 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	: Yellow.
Odour	: Aromatic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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 kg/m ³ @ 20°C
Solubility	: Insoluble in water. Organic solvent: 52,8 %
Log Pow	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosive properties	: Vapour could form explosive mixture with air.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 361,9 g/l
Other properties	: no self-sustaining combustion. 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

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO_x), sulphur compounds. 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

isobutane (75-28-5)

LC50 Inhalation - Rat (Vapours)	> 50 mg/l/4h
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propane (74-98-6)

LC50 Inhalation - Rat (Vapours)	20 mg/l/4h
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butane (106-97-8)

LC50 Inhalation - Rat (Vapours)	658 mg/l/4h
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Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2920 mg/kg
LC50 Inhalation - Rat	> 23,3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	> 23,3 mg/l/4h

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

LD50 dermal rat	2800 – 3100 mg/kg bodyweight
LC50 Inhalation - Rat	> 25,2 mg/l air

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1,9 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity)

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Sulfone-acids, alkane-, sodiumsalts (68608-26-4)

LD50 oral rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

LOAEC (inhalation, rat, vapour, 90 days)	16,6 mg/l air
NOAEC (inhalation, rat, vapour, 90 days)	3,3 mg/l air

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

NOAEL (oral, rat, 90 days)	> 500 mg/kg bodyweight Animal: rat, Guideline: other:OECD 415
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Aspiration hazard	: Not classified
Additional information	: May be narcotic

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Vaporizer	aerosol
Potential adverse human health effects and symptoms	: Irritation: may cause irritation to the respiratory system. May be narcotic.

SECTION 12: Ecological information

12.1. Toxicity

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

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 21d
EC50 72h - Algae [1]	10 – 30 mg/l
LOEC (chronic)	0,32 mg/l
NOEC (chronic)	0,17 mg/l Daphnia Magna 21d
NOEC chronic fish	1534 mg/l 28d
NOEC chronic algae	0,1 mg/l 72h

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

LOEC (chronic)	0,32 mg/l Daphnia magna Duration: 21 d
NOEC (chronic)	0,17 mg/l Daphnia magna Duration: '21 d

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

LC50 fish 1	≥ 100 mg/l LL50 OECD 203 Oncorhynchus mykiss-Goodband T.J. (2005a)
LC50 fish 2	≥ 10000 mg/l LL 50 OECD 203 Cyprinodon variegatus- Nicholson R.B. (1986)

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EC50 Daphnia 1	≥ 1000 EPA OTS 797. 1300 (WAF) Ward, T.J. (1993)
EC50 72h - Algae [1]	≥ 100 mg/l OECD 201 Scenedesmus subspicatus- Mead. C. (2005)
ErC50 (algae)	≥ 1000 mg/l EPA OTS 797, 1050 Pseudekirchnerella subcaptitata War, T.J. (1994)

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.
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12.3. Bioaccumulative potential

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

Bioaccumulative potential	No data available.
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Sulfone-acids, alkane-. sodiumsalts (68608-26-4)

Log Pow	41,63
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12.4. Mobility in soil

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

Soil	No data available.
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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
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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
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	

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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 : 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:

Section	Changed item	Change	Comments
	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	
	Additional information	Removed	
	Revision date	Modified	
	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	

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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 Acute 1	Hazardous to the aquatic environment — Acute Hazard, 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 Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
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.