

Safety data sheet

according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

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

- **1.1 Product identifier**
- **Trade name:** *DELTA SPRAY aerosol*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Sector of Use** SU3 Industrial uses: *Uses of substances as such or in preparations at industrial sites*
- **Application of the substance / the mixture** *Molybdenum disulphide assembly paste*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MOLYDAL SA
221 Rue Paul Langevin
60744 SAINT MAXIMIN - FRANCE
TEL : + 33 (0)3 44 61 76 76
FAX : + 33 (0)3 44 25 17 78
www.molydal.com
- **Further information obtainable from:**
regulatory department
molydal@molydal.com
- **1.4 Emergency telephone number:** *National emergency phone number : +36 80 20 11 99*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

- | | | |
|-------------------|-----------|---|
| Aerosol 1 | H222-H229 | <i>Extremely flammable aerosol. Pressurised container: May burst if heated.</i> |
| Asp. Tox. 1 | H304 | <i>May be fatal if swallowed and enters airways.</i> |
| Aquatic Chronic 3 | H412 | <i>Harmful to aquatic life with long lasting effects.</i> |

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
Hydrocarbons, C6, isoalkanes, <5% n-hexane
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
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.
P273 Avoid release to the environment.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: **DELTA SPRAY aerosol**

(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 109-87-5 EINECS: 203-714-2 Reg.nr.: 01-2119664781-31-xxxx	Methylal ⚠ Flam. Liq. 2, H225	25-50%
EC number: 920-901-0 Reg.nr.: 01-2119456810-40-xxxx	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics Alternative CAS numbers: 64742-48-9, 90622-58-5 ⚠ Asp. Tox. 1, H304, EUH066	25-50%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34-xxxx	Hydrocarbons, C6, isoalkanes, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336, EUH066	≥10-<25%
CAS: 124-38-9 EINECS: 204-696-9	Carbon dioxide ⚠ Press. Gas (Liq.), H280	2.5-10%

· **Additional information**

Mineral oil based product with DMSO extract <3%, according to IP 346.
The benzene content of petroleum solvents is less than 0.1%.
For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
Immediately remove all soiled and contaminated clothing
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed or in case of vomiting, danger of entering the lungs

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO₂, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: **DELTA SPRAY aerosol**

(Contd. of page 2)

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **For non-emergency personnel**
Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
Seal the leak if it can be done safely.
- **For emergency responders** Wear safety equipment. Remove unprotected persons.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Protect from heat.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.
- **Handling**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Keep only in the original container
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** 0 ~ 25°C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****109-87-5 Methylal**

WEL	Short-term value: 3950 mg/m ³ , 1250 ppm
	Long-term value: 3160 mg/m ³ , 1000 ppm

124-38-9 Carbon dioxide

WEL	Short-term value: 27400 mg/m ³ , 15000 ppm
	Long-term value: 9150 mg/m ³ , 5000 ppm

· **DNELs****109-87-5 Methylal**

Dermal	DNEL	17.9 mg/Kg (Workers - Systemic effect - Long term)
Inhalative	DNEL	126.6 mg/m ³ (Workers - Systemic effect - Long term)

(Contd. on page 4)

GB

Safety data sheet

according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: **DELTA SPRAY aerosol**

(Contd. of page 3)

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Dermal	DNEL	13,964 mg/Kg (Workers - Systemic effect - Long term)
Inhalative	DNEL	5,306 mg/m ³ (Workers - Systemic effect - Long term)

· **PNECs****109-87-5 Methylal**

PNEC (freshwater)	14,577 mg/L
PNEC (Marine)	1.4577 mg/L
PNEC (sediment freshwater)	13,135 mg/Kg
PNEC (soil)	4.654 mg/Kg

· **8.2 Exposure controls**· **Appropriate engineering controls** Ensure good ventilation/exhaustion at the workplace.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter A/P2.

· **Hand protection**

Protective gloves.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **For the permanent contact gloves made of the following materials are suitable:** Nitrile rubber, NBR· **Eye/face protection** Goggles recommended during refilling.· **Body protection:** Protective work clothing.· **Environmental exposure controls** Do not allow product to reach sewage system or any water course.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Physical state**

Aerosol

· **Colour:**

Black

· **Odour:**

characteristic

· **Melting point/freezing point:**

undetermined

· **Boiling point or initial boiling point and boiling range**

Not applicable, as aerosol

· **Flammability**

Extremely flammable.

· **Lower and upper explosion limit**· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable, as aerosol

· **Ignition temperature:**

Product is not selfigniting.

· **Decomposition temperature:**

Not determined.

· **pH**

Not applicable.

· **Viscosity:**· **Kinematic viscosity**

Not determined.

· **dynamic:**

Not determined.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: DELTA SPRAY aerosol

(Contd. of page 4)

- **Solubility**
- **Water:** Not miscible or difficult to mix
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure:** Not determined.
- **Vapour pressure:**
- **Density at 20 °C:** 0.98 g/cm³ (NFT 30-020)
- **Vapour density** Not determined.
- **Particle characteristics** Not applicable.

- **9.2 Other information**
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **Volatile Organic Compound :** 81.17 %
- **Solids content:** 5-10 %

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No specific data available for this product*
- **10.2 Chemical stability** *Stable under normal conditions of use*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known*

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

· LD/LC50 values relevant for classification:

109-87-5 Methylal

Oral	LD50	6,423 mg/kg (Rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	57 mg/l (Rat)

- **Skin corrosion/irritation** *Frequent or prolonged contact can degrease and dry out the skin, leading to discomfort or dermatitis.*
- **Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity** *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
- **STOT-single exposure** *Based on available data, the classification criteria are not met.*
- **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
- **Aspiration hazard** *May be fatal if swallowed and enters airways.*

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

- **Other information** *No further relevant information available.*

GB

(Contd. on page 6)

Safety data sheet
according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: DELTA SPRAY aerosol

(Contd. of page 5)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

LL50 (invertébrés) 48h 1,000 mg/L (Oncorhynchus mykiss) (Données relatives à des produits équivalents)

LE50 (algues) 72h 1,000 mg/L (Daphnia magna) (Données relatives à des produits équivalents)

· 12.2 Persistence and degradability Not easily biodegradable

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substance assessed as PBT or vPvB

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Ecotoxicological effects: Harmful to fish

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA

UNI1950

· 14.2 UN proper shipping name

· ADR

1950 AEROSOLS

· IMDG

AEROSOLS

· IATA

AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR



· Class

2.5F Gases.

· Label

2.1

· IMDG, IATA



· Class

2.1 Gases.

· Label

2.1

· 14.4 Packing group

· ADR, IMDG, IATA

Void

· 14.5 Environmental hazards:

· Marine pollutant:

No

(Contd. on page 7)

Safety data sheet
according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: **DELTA SPRAY aerosol**

(Contd. of page 6)

· 14.6 Special precautions for user	Warning: Gases.
· Hazard identification number (Kemler code):	-
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Maritime transport in bulk according to IMO instruments	The product is not transported in bulk
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 · **Substances of very high concern (SVHC) according to REACH, Article 57**
 Do not contain or in a quantity < 0.1% SVHC substance weight (extremely worrying chemical substances) listed on the « candidate list »

· **List of substances subject to authorisation (ANNEX XIV)**

Do not contain any substance submitted to authorization according to annex XIV

· **TSCA (Toxic Substances Control Act): (Substances not listed)**

All ingredients are listed.

· **Philippines Inventory of Chemicals and Chemical Substances: (Substances not listed)**

All ingredients are listed.

· **Chinese Chemical Inventory of Existing Chemical Substances: (Substances not listed)**

All ingredients are listed.

· **Domestic Substances List - Non Domestic Substances List: (Substances not listed)**

124-38-9 Carbon dioxide

· **Korean Existing Chemical Inventory: (Substances not listed)**

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

Hydrocarbons, C6, isoalkanes, <5% n-hexane

(Contd. on page 8)

Safety data sheet
according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: DELTA SPRAY aerosol

(Contd. of page 7)

· AICS - Australian Inventory of Chemical Substances: (Substances not listed)
--

All ingredients are listed.

· New Zealand Inventory of Chemicals: (Substances not listed)
--

All ingredients are listed.

· Poisons Act

· Regulated explosives precursors
--

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

1317-33-5 molybdenum disulphide	Listed
---------------------------------	--------

· Seveso category P3b FLAMMABLE AEROSOLS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
--

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
--

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
--

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

· **Abbreviations and acronyms:**

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

TLV: Threshold Limit Value

IBC: intermediate bulk container

EuPCS: European product classification system

GB CLP: Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures

MARPOL: International Convention for the Prevention of Pollution from Ships

OEL: Occupational Exposure Limits

Aerosol 1: Aerosols – Category 1

Press. Gas (Liq.): Gases under pressure – Liquefied gas

Flam. Liq. 2: Flammable liquids – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

(Contd. on page 9)

Safety data sheet
according to 1907/2006/CE n°2020/878

Printing date 18.06.2024

Version n° 37

Revision: 18.06.2024

Trade name: DELTA SPRAY aerosol

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**

(Contd. of page 8)

GB