Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.07.2021 Version number 4 Revision: 08.07.2021

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

1.1 Product identifier

Trade name: Silver bis(trifluoromethanesulfonyl)imide 99,5%

Article number: M4708C
CAS Number:
189114-61-2
EC number:
689-634-2

1.2 Relevant identified uses of the substance or mixture and uses advised against No other important information available.
Application of the substance / the mixture This product is intended for the exclusive use of Research and Development

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Solvionic SA
11 chemin des Silos
31100 TOULOUSE
FRANCE
Phone: +33 (0).32.26.20.20
Further information obtainable from: Department of Regulatory affairs

1.4 Emergency telephone number:
ORFILA (INRS): +33 (0)1.45.42.59.59
CCHST: 1-800-668-4284 (Canada & U.S.A)

SECTION 2: Hazards identification

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

Skin Corr. 1B	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.
STOT SE 3	H335	May cause respiratory irritation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05 GHS07

Signal word Danger

Hazard statements
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements

P260	Do not breathe dusts or mists.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances
- CAS No. / Description
189114-61-2 Silver bis(trifluoromethanesulfonyl)imide
- Identification number(s)
EC number: 689-634-2
Molecular formula: Ag C2 F6 N O4 S2
Molar mass: 388 g/mol

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
. After inhalation: In case of unconsciousness place patient stably in side position for transportation.
. After skin contact: Immediately wash with water and soap and rinse thoroughly.
. After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
. After swallowing:
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor 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 No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
. Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters
. Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Use individual protective gear.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
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 Thorough dedusting.
. Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
. Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace: Not required.

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. Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
- Personal protective equipment:
. General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
. Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
. Protection of hands:

Protective gloves

Neoprene gloves
To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.
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.
Neoprene gloves
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
. Eye protection:

Tightly sealed goggles

. Body protection: Use protective suit.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information	
. Appearance:	
Form:	Crystalline powder
Color:	White
. Odor:	Not determined.
. Odor threshold:	Not determined.
- pH-value:	Not applicable.
- Change in condition	
. Melting point/freezing point:	Undetermined.
. Initial boiling point and boiling range:	Undetermined.
- Flash point:	Not applicable.
- Flammability (solid, gas):	Product is not flammable.
. Decomposition temperature:	Not determined.
- Auto-ignition temperature:	Not determined.
- Explosive properties:	Product does not present an explosion hazard.
- Explosion limits:	
. Lower:	Not determined.
. Upper:	Not determined.
- Vapour pressure:	Not applicable.
- Density:	Not determined.
. Relative density	Not determined.
. Vapour density	Not applicable.
. Evaporation rate	Not applicable.
- Solubility in / Miscibility with	
. water:	Not determined.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
. Dynamic:	Not applicable.
. Kinematic:	Not applicable.
9.2 Other information	No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: Strong oxidizer and strong base.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.

- Primary irritant effect:
. Skin corrosion/irritation
Causes severe skin burns and eye damage.
. Serious eye damage/irritation
Causes serious eye damage.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Additional toxicological information:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
. 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.

- Specific target organ toxicity - single exposure
May cause respiratory irritation.

- Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.
Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

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.

European waste catalogue	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP8	Corrosive

Uncleaned packaging:
. Recommendation: Disposal must be made according to official regulations.

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SECTION 14: Transport information

14.1 UN-Number
ADR/RID/ADN, IMDG, IATA UN1759

14.2 UN proper shipping name
ADR/RID/ADN UN1759 CORROSIVE SOLID, N.O.S. (Silver bis(trifluoromethanesulfonyl)imide)
IMDG, IATA CORROSIVE SOLID, N.O.S. (Silver bis(trifluoromethanesulfonyl) imide)

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA

Class 8 Corrosive substances.
Label 8

14.4 Packing group
ADR/RID/ADN, IMDG, IATA II

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Warning: Corrosive substances.
Hazard identification number (Kemler code): 80
EMS Number: F-A,S-B
Stowage Category A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

Transport/Additional information:
ADR/RID/ADN
Limited quantities (LQ) 1 kg
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 500 g
Transport category 2
Tunnel restriction code E
IMDG
Limited quantities (LQ) 1 kg
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 500 g

UN "Model Regulation": UN 1759 CORROSIVE SOLID, N.O.S. (SILVER BIS(TRIFLUOROMETHANESULFONYL)IMIDE), 8, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU
Named dangerous substances - ANNEX I Substance is not listed.
DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
Substance is not listed.

15.2 Chemical safety assessment:
For this product, no chemical safety assessment has been performed.
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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.

For research and development use only.
Department issuing SDS: Regulatory affairs department

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Contact:
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Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the previous version altered.**