CAS No: 7439-96-5 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance

:

CAS No : 7439-96-5 Product code : 4498B

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)
+91 9316777775, +91 7707855700
sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable solids, H228
Category 1
Substances and Mixtures Which, in contact with water, emit flammable gases, Category 1
H260

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11 F; R15

Full text of R-phrases: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H228 - Flammable solid

H260 - In contact with water releases flammable gases which may ignite

spontaneously

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

P223 - Do not allow contact with water

P231+P232 - Handle under inert gas. Protect from moisture P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting/... equipment

P280 - Wear protective gloves/protective clothing/eye protection/face protection P335+P334 - Brush off loose particles from skin. Immerse in cool water/wrap in wet

bandages

P370+P378 - In case of fire: Use ... to extinguish

P402+P404 - Store in a dry place. Store in a closed container

P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : MANGANESE (METAL) FLAKES

CAS No : 7439-96-5

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

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First-aid measures after eye contact

: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Rinse mouth out with water. If you feel unwell, seek medical advice.

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

No additional information available

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 : dry chemical powder, alcohol-resistant foam, 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 : Flammable solid.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Wear fire/flame

resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No naked

lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Use personal protective equipment as required.

Emergency procedures : Stop release.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Precautions for safe handling

: No naked lights. No smoking. Protect from moisture. Handle under inert gas.

Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.

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Storage conditions : Heat sources. Direct sunlight. Keep in fireproof place. Store in a dry place. Protect

from moisture.

Incompatible materials : Keep away from any possible contact with water, because of violent reaction and

possible flash fire.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear appropriate mask

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 54.94 g/mol Colour : Bright silver grey.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 1260 °C

Freezing point : No data available

Boiling point : 1900 °C

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable solid, In contact with water releases flammable gases which may ignite

spontaneously

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

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Density : 7.3 g/cm³

Solubility : Water: Reacts with water

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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Flammable solid. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

In contact with water releases flammable gases which may ignite spontaneously.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to ...

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 3208 UN-No. (IMDG) : 3208 UN-No.(IATA) : 3208 UN-No.(ADN) : 3208 UN-No. (RID) : 3208

14.2. UN proper shipping name

Proper Shipping Name (ADR)

: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.

Proper Shipping Name (IMDG)

: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.

Proper Shipping Name (IATA)

: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.

Proper Shipping Name (ADN)

: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.

Proper Shipping Name (RID)

: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.

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Transport document description (ADR)

Transport document description (IMDG)

Transport document description (IMDG)

Transport document description (IATA)

Transport document description (ADN)

Transport document description (ADN)

Transport document description (RID)

Transport document description (RID)

: UN 3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S., 4.3, III

: UN 3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S., 4.3, III

: UN 3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S., 4.3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 4.3 Danger labels (ADR) : 4.3



IMDG

Transport hazard class(es) (IMDG) : 4.3 Danger labels (IMDG) : 4.3



IATA

Transport hazard class(es) (IATA) : 4.3 Hazard labels (IATA) : 4.3



ADN

Transport hazard class(es) (ADN) : 4.3 Danger labels (ADN) : 4.3



RID

Transport hazard class(es) (RID) : 4.3 Danger labels (RID) : 4.3



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14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : W2
Special provision (ADR) : 274, 557
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P410, IBC08, R001

Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP14
Portable tank and bulk container : T1

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

: TP33

Tank code (ADR) : SGAN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V1

(ADR)

Special provisions for carriage - Bulk : VC1, VC2, AP3, AP4, AP5

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

· CV23

Hazard identification number (Kemler No.) : 423

Orange plates :

423 3208

Tunnel restriction code (ADR) : E EAC code : 4W

- Transport by sea

Special provision (IMDG) : 223, 274 Limited quantities (IMDG) : 1 kg Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P410 Packing provisions (IMDG) : PP31, PP40 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B4 Tank instructions (IMDG) : T1 Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-G EmS-No. (Spillage) : S-N

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Stowage category (IMDG) : E

Stowage and handling (IMDG) : SW2, H1 Segregation (IMDG) : SG26 MFAG-No : 138

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y476
PCA limited quantity max net quantity : 10kg

(IATA)

PCA packing instructions (IATA) : 485
PCA max net quantity (IATA) : 25kg
CAO packing instructions (IATA) : 491
CAO max net quantity (IATA) : 100kg
Special provision (IATA) : A3
ERG code (IATA) : 4W

- Inland waterway transport

Classification code (ADN) : W2

Special provisions (ADN) : 274, 557

Limited quantities (ADN) : 1 kg

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Provisions for handling and stowage of the : HA08

cargo (ADN)

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : W2
Special provision (RID) : 274, 557
Limited quantities (RID) : 1kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P410, IBC08, R001

Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP14

Portable tank and bulk container : T1

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAN
Transport category (RID) : 3
Special provisions for carriage – Packages : W1

(RID)

Special provisions for carriage – Bulk

: VC1, VC2, AP3, AP4, AP5

(RID)

Special provisions for carriage - Loading : CW23

and unloading (RID)

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 423

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

MANGANESE (METAL) FLAKES is not on the REACH Candidate List MANGANESE (METAL) FLAKES is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) nwg, non-hazardous to water (KBwS-Beschluss; WGK

No 1443)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Flam. Sol. 1	Flammable solids, Category 1
Water-react. 1	Substances and Mixtures which, in contact with water, emit flammable gases, Category 1
H228	Flammable solid
H260	In contact with water releases flammable gases which may ignite spontaneously
R11	Highly flammable
R15	Contact with water liberates extremely flammable gases
F	Highly flammable

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

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