

Revision Date 23-Jun-2008

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier****Product Description:****FMO-C-L-Methionine****Cat No.****265310000; 265310010; 265310050****Synonyms****N-(9-Fluorenylmethoxycarbonyl)-L-methionine****Relevant identified uses of the substance or mixture and uses advised against****Recommended Use**

Laboratory chemicals

Uses advised against

No Information available

Details of the supplier of the safety data sheet**Company**Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium**E-mail address**

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300

CHEMTREC Phone Number, Europe: 001-703-527-3887

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC*For the full text of the R phrases mentioned in this Section, see Section 16***R -phrase(s)**

none

Label Elements**Signal Word**

None

Hazard Statements**Other Hazards**

No information available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | EC No. | Weight % | CAS-No | Classification | GHSCLAS | REACH Reg. No. |
|---|-------------------|----------|------------|----------------|---------|----------------|
| N-[(9H-Fluoren-9-ylmethoxy)carbonyl]-L-methionine 71989-28-1 | EEC No. 276-258-5 | 98 | 71989-28-1 | - | - | - |

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---------------------------|--|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes |
| Ingestion | Do not induce vomiting Never give anything by mouth to an unconscious person Drink plenty of water If possible drink milk afterwards |
| Inhalation | Remove from exposure, lie down Move to fresh air |
| Notes to Physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray Carbon dioxide (CO₂) Dry chemical alcohol-resistant foam

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Thermal decomposition can lead to release of irritating gases and vapors

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

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Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes Avoid contact with clothing Remove and wash contaminated clothing before re-use Avoid breathing vapors or mists Do not ingest Wash thoroughly after handling

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep refrigerated

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas Ventilation systems

Personal protective equipment

Eye Protection

Safety glasses with side-shields Goggles

Hand Protection

Protective gloves

Skin and body protection

Long sleeved clothing

Respiratory Protection

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Powder, Solid

Appearance

White

odor

odorless

pH

No information available.

Boiling Point/Range

No information available.

Melting Point/Range

132 - 136°C / 269.6 - 276.8°F

Flash Point

No information available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------|---------------------------|
| Autoignition Temperature | No information available. |
| Molecular Formula | C20 H21 N O4 S |
| Molecular Weight | 371.45 |

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization No information available.

Hazardous Reactions . No information available.

Conditions to Avoid

Heat, flames and sparks

Incompatible Materials

Oxidizing agents.

Hazardous Decomposition Products

Nitrogen oxides (NO_x). Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

| | |
|--|--|
| Sensitization | No information available. |
| Mutagenic Effects | No information available |
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |
| Target Organs | No information available. |
| Other Adverse Effects | The toxicological properties have not been fully investigated. |
| Endocrine Disruptor Information | None known |

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11. TOXICOLOGICAL INFORMATION**12. ECOLOGICAL INFORMATION****Toxicity****Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment**Other adverse effects**

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION**IMDG/IMO**

Not regulated

ADR

Not regulated

IATA

Not regulated

15. REGULATORY INFORMATION

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

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International Inventories

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|---|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| N-[(9H-Fluoren-9-ylmethoxy)carbonyl]-L-methionine | 276-258-5 | - | | - | - | - | - | - | X | - | - |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory Lists

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

No information available.

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Revision Summary

Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet