Reviewed on 11/10/2008

1 Identification of substance:

Product details: Product name: Glycylglycine

Stock number:

A10523 L03471

Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company 30 Bond Street

Johnson Matthey Catalog Company, Inc. Ward Hill, MA 01835-8099 Emergency Phone: (978) 521-6300

CHEMTREC: (800) 424-9300 Web Site: www.alfa.com

Information Department: Health, Safety and Environmental Department Emergency information:

After normal hours call Chemtrec at (800) 424-9300. 2 Composition/Data on components: Chemical characterization:

During normal hours the Health, Safety and Environmental Department.

Glycylglycine (CAS# 556-50-3): 100% Identification number(s): EINECS Number: 209-127-8

3 Hazards identification

Classification system HMIS ratings (scale 0-4)

Description: (CAS#)

Hazard description: Not applicable Information pertaining to particular dangers for man and environment Not applicable

Health (acute effects) - 1 Flammability - I FIRE 1

Reactivity - I REACTIVITY 1 4 First aid measures

(Hazardous Materials Identification System)

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a After swallowing Seek medical treatment.

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with water spray or alcohol resistant foam. Special hazards caused by the material, its products of combustion or resulting gases: In case of fire, the following can be released:

Do not allow material to be released to the environment without proper

Carbon dioxide, extinguishing powder or water spray. Fight larger fires

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

5 Fire fighting measures

Suitable extinguishing agents

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

governmental permits. Measures for cleaning/collecting: Pick up mechanically.

Ensure adequate ventilation

Additional information:

Keep ignition sources away.

Store away from oxidizing agents.

Keep container tightly sealed.

Additional information: No data Personal protective equipment

Breathing equipment:

Protection of hands: Impervious gloves

Material of gloves

Odori

Lowers

Upper:

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Nitrogen oxides

Acute toxicity:

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Change in condition

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

No special requirements.

Handling

6 Accidental release measures

Person-related safety precautions:

Measures for environmental protection:

See Section 13 for disposal information.

7 Handling and storage

See Section 7 for information on safe handling

Wear protective equipment. Keep unprotected persons away.

Information for safe handling: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions are necessary if used correctly.

Information about protection against explosions and fires:

Information about storage in one common storage facility:

Requirements to be met by storerooms and receptacles:

See Section 8 for information on personal protection equipment.

Store in cool, dry conditions in well sealed containers. 8 Exposure controls and personal protection

Further information about storage conditions:

and having an average face velocity of at least 100 feet per minute. Components with limit values that require monitoring at the workplace: Not required.

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals

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Remove all soiled and contaminated clothing immediately.

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The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.

Check protective gloves prior to each use for their proper condition.

pirator when high concentrations are present

Not determined

Not determined

Not determined

Not determined

217°C (423°F) (dec)

The usual precautionary measures for handling chemicals should be

General Information Form: Crystalline powder Color: White

9 Physical and chemical properties:

Melting point/Melting range:

Boiling point/Boiling range:

Sublimation temperature / start: Not determined Flash point: Not applicable Ignition temperature: Not determined Decomposition temperature: Not determined Danger of explosion: Product does not present an explosion hazard. Explosion limits:

Vapor pressure: Not determined Density: Not determined Solubility in / Miscibility with Water: Soluble 5 10 Stability and reactivity Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Materials to be avoided: Oxidizing agents (Contd. on page 4)

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injury to humans from acute or chronic exposure to this product is

To the best of our knowledge the acute and chronic toxicity of this

classification data on carcinogenic properties of this material is

Do not allow undiluted product or large quantities of it to reach ground

Consult state, local or national regulations to ensure proper disposal.

Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition: Carbon monoxide and carbon dioxide

Additional toxicological information:

water, water course or sewage system.

available from the EPA, IARC, NTP, OSHA or ACGIH.

on the skin: May cause irritation on the eye: May cause irritation Sensitization: No sensitizing effects known. Subscute to chronic toxicity: Other than potential irritation (see above), no information on illness or

substance is not fully known.

12 Ecological information:

governmental permits.

Uncleaned packagings:

14 Transport information

ADR/RID class: None Maritime transport IMDG:

IMDG Class:

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15 Regulations

Product name: Glycylglycine

ICAO/IATA Class: None

Substances List (DSL).

16 Other information:

Contact: Paul V. Connolly

General notes:

Recommendation

Product:

11 Toxicological information

Primary irritant effect:

Do not allow material to be released to the environment without proper 13 Disposal considerations

Not a hazardous material for transportation. DOT regulations: Hazard class: None Land transport ADR/RID (cross-border)

None

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Observe the general safety regulations when handling chemicals National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance

For use only by technically qualified individuals.

Not dangerous according to the above specifications.

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

Information about limitation of use:

Air transport ICAO-TI and IATA-DGR:

Transport/Additional information:

Product related hazard informations:

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. Department issuing MSDS: Health, Safety and Environmental Department.

All components of this product are listed on the Canadian Domestic

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