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1 Identification of substance:

Product details:

Product name: 2,5-Dihydroxybenzaldehyde

Stock number: A15565

L01864

Manufacturer/Supplier: Alfa Aesar, A Johnson Matthey Company

Johnson Matthey Catalog Company, Inc. 30 Bond Street 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.

2,5-Dihydroxybenzaldehyde (1194-98-5): 100% Identification number(s): EINECS Number: 214-789-6

Xi Irritant

3 Hazards identification Hazard description:

Description: (CAS#)

Information pertaining to particular dangers for man and environment R 36/37/38 Irritating to eyes, respiratory system and skin. Classification system HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1 Flammability - I FIRE Reactivity - I REACTIVITY 1

4 First aid measures

After inhalation

After skin contact

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

Product name: 2,5-Dihydroxybenzaldehyde

After eye contact

resulting gases:

Protective equipment:

doctor.

Seek immediate medical advice.

Immediately wash with water and soap and rinse thoroughly.

acc. to OSHA and ANSI Reviewed on 11/10/2008 Printing date II/I0/2008

After swallowing Seek immediate medical advice.

In case of fire, the following can be released:

Wear protective equipment. Keep unprotected persons away.

5 Fire fighting measures

Rinse opened eye for several minutes under running water. Then consult a

Material Safety Data Sheet

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards caused by the material, its products of combustion or

Carbon monoxide and carbon dioxide

6 Accidental release measures

Ensure adequate ventilation

Person-related safety precautions:

Suitable extinguishing agents

Wear self-contained respirator. Wear fully protective impervious suit.

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

governmental permits. Measures for cleaning/collecting: Ensure adequate ventilation. Additional information: See Section 7 for information on safe handling

Handle under dry protective gas. Keep container tightly sealed.

See Section 13 for disposal information.

Measures for environmental protection:

7 Handling and storage Handling Information for safe handling:

See Section 8 for information on personal protection equipment.

Ensure good ventilation at the workplace. Information about protection against explosions and fires: Keep ignition sources away. Storage

Information about storage in one common storage facility:

Store in cool, dry place in tightly closed containers.

Requirements to be met by storerooms and receptacles:

Further information about storage conditions: Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

Store away from oxidizing agents.

No special requirements.

Store away from air.

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Not required.

Protection of hands: Impervious gloves

Material of gloves

General Information

Flash point:

Upper:

Density:

Aix

specifications.

Oxidizing agents

Acute toxicity:

Vapor pressure:

Product name: 2,5-Dihydroxybenzaldehyde

Personal protective equipment

This product is air sensitive. 8 Exposure controls and personal protection

Additional information about design of technical systems:

Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Breathing equipment:

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

The usual precautionary measures for handling chemicals should be

Use suitable respirator when high concentrations are present.

Material Safety Data Sheet acc. to OSHA and ANSI

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Components with limit values that require monitoring at the workplace:

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.

9 Physical and chemical properties:

Boiling point/Boiling range:

Product name: 2,5-Dihydroxybenzaldehyde

10 Stability and reactivity

Materials to be avoided:

11 Toxicological information

on the eye: Irritating effect.

Subscute to chronic toxicity:

substance is not fully known.

water, water course or sewage system.

12 Ecological information:

governmental permits.

Uncleaned packagings:

14 Transport information

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DOT regulations: Hazard class:

IMDG Class:

ADR/RID class: None Maritime transport IMDG:

General notes:

Primary irritant effect:

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Colori Not determined Odor: Change in condition 98-100°C (208-212°F) Melting point/Melting range:

Crystalline powder

Not determined

Not determined

Not determined

Not applicable Ignition temperature: Not determined Decomposition temperature: Not determined Product does not present an Danger of explosion: explosion hazard. Explosion limits: Lower: Not determined Not determined

Sublimation temperature / start: Not determined

Page 4/5 Material Safety Data Sheet acc. to OSHA and ANSI Reviewed on 11/10/2008 Printing date II/I0/2008

Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is available. Additional toxicological information:

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

Sensitization: No sensitizing effects known.

on the skin: Irritant to skin and mucous membranes.

Thermal decomposition / conditions to be avoided:

Dangerous reactions No dangerous reactions known

Decomposition will not occur if used and stored according to

Dangerous products of decomposition: Carbon monoxide and carbon dioxide

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

No classification data on carcinogenic properties of this material is

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

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

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

Recommendation: Disposal must be made according to official regulations.

Material Safety Data Sheet acc. to OSHA and ANSI

13 Disposal considerations Product: Recommendation

Not a hazardous material for transportation.

ICAO/IATA Class: None Transport/Additional information: Not dangerous according to the above specifications.

36/37/38 Irritating to eyes, respiratory system and skin. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Product name: 2,5-Dihydroxybenzaldehyde

None Land transport ADR/RID (cross-border)

None Air transport ICAO-TI and IATA-DGR:

Xi Irritant Risk phrases:

15 Regulations Product related hazard informations:

Hazard symbols:

37 Wear suitable gloves. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance

process, is the responsibility of the user.

Substances List (NDSL).

Contact: Paul V. Connolly

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

Information about limitation of use: For use only by technically qualified individuals.

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health and safety of employees. This information is furnished without

warranty, and any use of the product not in conformance with this

All components of this product are listed on the Canadian Non-Domestic

Material Safety Data Sheet, or in combination with any other product or Department issuing MSDS: Health, Safety and Environmental Department.

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