1 Identification of substance: Product details:

Product name: Furan-2,5-dicarboxylic acid Stock number: H28718

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 Product Safety Department

Emergency information:

During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

2 Composition/Data on components: Chemical characterization:

Furan-2,5-dicarboxylic acid (CAS# 3238-40-2): 100%

Identification number(s): EINECS Number: 221-800-8

Description: (CAS#)

3 Hazards identification

Hazard description:

Xi Irritant

Information pertaining to particular dangers for man and environment R 36/37/38 Irritating to eyes, respiratory system and skin.

Classification system

FIRE

REACTIVITY 1

HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1

4 First aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep

patient warm. Seek immediate medical advice.

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After eye contact

resulting gases:

Protective equipment:

5 Fire fighting measures

doctor.

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

Flammability - I

Reactivity - I

Material Safety Data Sheet acc. to OSHA and ANSI Reviewed on 07/07/2008

After swallowing Seek immediate medical advice.

In case of fire, the following can be released:

Product name: Furan-2,5-dicarboxylic acid (Contd. of page 1)

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

(Contd. on page 2)

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Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Carbon monoxide and carbon dioxide

Wear self-contained respirator.

Special hazards caused by the material, its products of combustion or

Wear fully protective impervious suit. 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

governmental permits. Measures for cleaning/collecting: Ensure adequate ventilation. Additional information:

Person-related safety precautions:

Measures for environmental protection:

See Section 13 for disposal information.

Ensure good ventilation at the workplace.

See Section 7 for information on safe handling

Ensure adequate ventilation

7 Handling and storage

Keep ignition sources away.

Keep container tightly sealed.

Product name: Furan-2,5-dicarboxylic acid

Additional information: No data Personal protective equipment

Eye protection: Safety glasses

Decomposition temperature:

Danger of explosion:

Explosion limits: Lowers

Upper:

Vapor pressure:

Printing date II/II/2008

specifications.

Acute toxicity:

available.

General notes:

Recommendation

DOT regulations: Hazard class:

Printing date II/II/2008

Hazard symbols: Xi Irritant

Safety phrases:

Product name: Furan-2,5-dicarboxylic acid

Product related hazard informations:

ADR/RID class: None

Product:

Product name: Furan-2,5-dicarboxylic acid

Thermal decomposition / conditions to be avoided:

Dangerous reactions No dangerous reactions known

on the skin: Irritant to skin and mucous membranes.

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

Sensitization: No sensitizing effects known.

Materials to be avoided: Oxidizing agents

Decomposition will not occur if used and stored according to

Dangerous products of decomposition: Carbon monoxide and carbon dioxide

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.

10 Stability and reactivity

11 Toxicological information

on the eye: Irritating effect.

Subscute to chronic toxicity:

substance is not fully known.

12 Ecological information:

governmental permits.

13 Disposal considerations

Primary irritant effect:

Body protection: Protective work clothing.

9 Physical and chemical properties:

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

8 Exposure controls and personal protection

Additional information about design of technical systems:

Printing date 11/11/2008

Not required.

Odor:

Handling Information for safe handling: Keep container tightly sealed. Store in cool, dry place in tightly closed containers.

See Section 8 for information on personal protection equipment.

Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents.

Store in cool, dry conditions in well sealed containers.

Information about protection against explosions and fires:

Further information about storage conditions:

(Contd. of page 2)

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(Contd. on page 3)

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:

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

The usual precautionary measures for handling chemicals should be

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:

Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. Material of gloves

Use suitable respirator when high concentrations are present.

General Information Form: Powder White Colori

Not determined

Not determined

Not determined

Not determined

Not determined

explosion hazard.

Product does not present an

Reviewed on 07/07/2008

(Contd. of page 3)

Change in condition Melting point/Melting range: >300°C (>572°F) Boiling point/Boiling range: Not determined Sublimation temperature / start: Not determined Flash point: Not applicable Ignition temperature: Not determined

Density: Not determined (Contd. on page 4) Page 4/5 Material Safety Data Sheet acc. to OSHA and ANSI

Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information

None Land transport ADR/RID (cross-border)

Not a hazardous material for transportation.

water, water course or sewage system.

Maritime transport IMDG: IMDG Class: Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: None 15 Regulations

36/37/38 Irritating to eyes, respiratory system and skin.

Material Safety Data Sheet acc. to OSHA and ANSI

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

and seek medical advice.

37 Wear suitable gloves.

National regulations

(Contd. on page 5)

(Contd. of page 4)

Department issuing MSDS: Health, Safety and Environmental Department.

16 Other information:

Material Safety Data Sheet, or in combination with any other product or

process, is the responsibility of the user. Contact: Paul V. Connolly

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

26 In case of contact with eyes, rinse immediately with plenty of water

Reviewed on 07/07/2008

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