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Printing date 12.08.2010 Revision: 12.08.2010

1 Identification of substance

Product details

4-Cyanobenzenesulfonamide Trade name

H31836 Stock number:

Manufacturer/Supplier: Alfa Aesar GmbH & Co.KG

Benzstrasse 3 D-76185 Karlsruhe / Germany

Product safety department.

Informing department: **Emergency information:** Giftnotruf Universität Mainz / Poison Information Center Mainz

www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

Xn Harmful

Information pertaining to particular dangers

for man and environment

GHS label elements

Harmful if swallowed.

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

Warning

H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation.

H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
P280 Wear protective gloves/clothing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Prevention: Response:

3 Composition/information on ingredients

Chemical characterization:

Designation: (CAS#)
Identification number(s):
EINECS Number: 4-Cyanobenzenesulfonamide (CAS# 3119-02-6)

221-492-5

4 First aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek immediate medical advice. After skin contact Instantly 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 doctor.

After swallowing Seek immediate medical advice.

5 Fire fighting measures

Suitable extinguishing agents Special hazards caused by the material, its

products of combustion or flue gases:

Can be released in case of fire:

Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Sulphur oxides (SOx)
Hydrogen cyanide (HCN)
Wear self-contained breathing apparatus.
Wear full protective suit

Protective equipment:

Wear full protective suit.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Measures for cleaning/collecting:

Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Dispose of contaminated material as waste according to item 13.

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Dispose of contaminated material as waste according to item 13 Ensure adequate ventilation.

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Keep ignition sources away - Do not smoke.

7 Handling and storage

Additional information:

Handling

Information for safe handling:

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Requirements to be met by storerooms and containers: Information about storage in one common

storage facility:

Further information about storage

conditions:

No special requirements.

Store away from oxidizing agents.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

Additional information about design of

technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require

monitoring at the workplace:

Not required.

(Contd. on page 2)

(Contd. of page 1)

Printing date 12.08.2010 Revision: 12.08.2010

Trade name 4-Cyanobenzenesulfonamide

Additional information:

Personal protective equipment General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Use breathing protection with high concentrations.
Check protective gloves prior to each use for their proper condition.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Breathing equipment: Protection of hands:

No data

Material of gloves

varies from manufacturer to manufacturer.

Penetration time of glove material

Eye protection: **Body protection:** Impervious gloves Not determined Safety glasses Face protection Protective work clothing.

9 Physical and chemical properties:

General Information

Powder Form: Colour: White Smell: Odourless Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:

Not determined Not determined Flash point: Not applicable Ignition temperature: Not determined **Decomposition temperature:** Not determined Danger of explosion: Product is not explosive.

Critical values for explosion:

Upper: Steam pressure: Density

Not determined Not determined Not determined Not determined

168-171°C

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Materials to be avoided:

Dangerous reactions:

Dangerous products of decomposition:

No decomposition if used and stored according to specifications.

Oxidizing agents
No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx)

Hydrogen cyanide (prussic acid)

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin: on the eye:

Sensitization:

Irritant effect.

Irritant for skin and mucous membranes.

Additional toxicological information:

No sensitizing effect known.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or

12 Ecological information:

Additional ecological information: General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:

Recommendation Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

Uncleaned packagings:

Disposal must be made according to official regulations. Recommendation:

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class:
None

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: None Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

(Contd. on page 3)

Printing date 12.08.2010 Revision: 12.08.2010

Trade name 4-Cyanobenzenesulfonamide

Transport/Additional information: Not dangerous according to the above specifications. (Contd. of page 2)

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

Xn Harmful

Risk phrases:

Harmful if swallowed.

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. 36/37 Wear suitable protective clothing and gloves. Safety phrases:

National regulations

Information about limitation of use:

For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. Water hazard class 1 (Self-assessment): slightly hazardous for water.

Water hazard class:

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 health and safety of employees. This information is furnished without 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 data specification sheet:
Contact:
Abbreviations and acronyms:

Health, Safety and Environmental Department.
Zachariah Holt
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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Air Transport Association
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Hamonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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