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Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 14.07.2010 Revision: 14.07.2010

1 Identification of substance

Product details

Cyclopropanecarbonitrile Trade name

Stock number:

A11125, L05796

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG

Benzstrasse 3 D-76185 Karlsruhe / Germany

Informing department: Emergency information:

Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

T Toxic

Information pertaining to particular dangers for man and environment

GHS label elements

R 10 Flammable. R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Danger

H301 - Toxic if swallowed. H311 - Toxic in contact with skin. H330 - Fatal if inhaled.

* Warning

H226 - Flammable liquid and vapour.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with Response:

water/shower.
Specific treatment is urgent (see on this label).
Remove/Take off immediately all contaminated clothing. P320 P361 Ře P405 Store locked up.

Storage: Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization:

Designation: (CAS#)
Identification number(s): Cyclopropanecarbonitrile (CAS# 5500-21-0): 100%

EINECS Number: 226-836-8

4 First aid measures

After skin contact

General information

After inhalation

Instantly remove any clothing soiled by the product.
Remove breathing apparatus only after soiled clothing has been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice.

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Rinse opened eye for several minutes under running water. Then consult doctor. Do not induce vomiting; instantly call for medical help. Seek immediate medical advice.

After eye contact After swallowing

5 Fire fighting measures

Suitable extinguishing agents For safety reasons unsuitable extinguishing

agents
Special hazards caused by the material, its products of combustion or flue gases:

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

Can be released in case of fire: Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Hydrogen cyanide (HCN)
Wear self-contained breathing apparatus.

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:

Keep away from ignition sources

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents
Keep away from ignition sources.
See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

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.

Open and handle container with care.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.

Storage Requirements to be met by storerooms and

containers: Information about storage in one common

storage facility:

No special requirements.

Store away from oxidizing agents.

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Further information about storage

conditions:

Do not store together with acids.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.

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: Additional information:

Not required. No data

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.
Store protective clothing separately.
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: Material of gloves

varies from manufacturer to manufacturer.

Safety glasses
Face protection
Protective work clothing. Eye protection: **Body protection:**

9 Physical and chemical properties:

General Information

Liquid Colour: Smell: Colourless Recognizable

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 134-135°C Not determined Flash point: 33°C Ignition temperature: Not determined

Decomposition temperature:

Critical values for explosion: Not determined Upper: Not determined Steam pressure: Not determined Density at 20°C 0.905 g/cm3

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.

Not determined

Oxidizing agents
No dangerous reactions known
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Hydrogen cyanide (prussic acid)

11 Toxicological information

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

May cause irritation May cause irritation

Additional toxicological information:

No sensitizing effect known.

Danger by skin resorption.

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 ACGIH.

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:

Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Recommendation

Uncleaned packagings:

Recommendation Disposal must be made according to official regulations.

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14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: Kemler Number:

6.1 (TF1) Toxic substances. 63 3275 II

UN-Number: Packaging group: Label

6.1+3 3275 NITRILES, TOXIC, FLAMMABLE, N.O.S. (Cyclopropanecarbonitrile) LQ17

Designation of goods: Limited quantities (LQ) Transport category Tunnel restriction code

Maritime transport IMDG/GGVSea:

3

IMDG/GGVSea Class: UN Number:

Label Packaging group: Marine pollutant: Correct technical name:

6.1+3 Nο

Ď/E

NITRILES, TOXIC, FLAMMABLE, N.O.S. (Cyclopropanecarbonitrile)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: UN/ID Number: Label

Packaging group: Correct technical name:

UN "Model Regulation":

6.1 3275 6.1+3

NITRILES, TOXIC, FLAMMABLE, N.O.S. (Cyclopropanecarbonitrile)

UN3275, NITRILES, TOXIC, FLAMMABLE, N.O.S., 6.1 (3), II

15 Regulatory information

Designation according to EC guidelines: Code letter and hazard designation of

product:

T Toxic

Risk phrases: Safety phrases:

10 Flammable. 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations

Information about limitation of use:

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.

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

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:

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Beginning to the first 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)
RID: Réglement international Air Transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Intransport of Dangerous Goods Regulations of Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
RICAO: International Corriage of Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
RICAO: International Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemical's Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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