E-mail: gcat@matthey.com

www.alfa-chemcat.com

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

Printing date 03.08.2010 Revision: 03.08.2010

1 Identification of substance

Product details

Trade name Octanenitrile

Stock number:

B23338

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

Prevention:

R 22 Harmful if swallowed.

Warning

H302 - Harmful if swallowed. P280 Wear protective clothing

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#)

Octanenitrile (CAS# 124-12-9)

4 First aid measures After inhalation

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

Seek immediate medical advice.

Rinse opened eye for several minutes under running water. Then consult doctor. Seek immediate medical advice.

After eye contact After swallowing

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) Hydrogen cyanide (HCN)

Protective equipment:

Wear self-contained breathing apparatus. Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

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.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

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

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

Additional information:

7 Handling and storage

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:

Storage

Keep ignition sources away - Do not smoke.

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: Additional information:

Not required. No data

Personal protective equipment General protective and hygienic measures

Breathing equipment: Protection of hands: Material of gloves

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.
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.
Safety glasses

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

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9 Physical a		
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General Information

Smell:

Form: Colour:

Liquid Colourless Characteristic

73°C

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:

-45°C 198-200°C Not determined

Flash point: Ignition temperature:

Not determined Decomposition temperature: Not determined Product is not explosive.

Danger of explosion:

Critical values for explosion: Lower: Upper: Steam pressure:

Not determined Not determined Not determined 0.81 g/cm³

Density at 20°C Solubility in / Miscibility with Water

Not miscible or difficult to mix

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) Hydrogen cyanide (prussic acid)

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral LD50 1764 mg/kg (mouse) (RTECS)

Primary irritant effect:

on the skin: on the eye: Sensitization:

May cause irritation May cause irritation

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

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

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.

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

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:

Marine pollutant:

None Νo

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:

None

Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

Information about limitation of use:

product:

Xn Harmful

Risk phrases: 22 Harmful if swallowed.

Safety phrases: 36 Wear suitable protective clothing.

National regulations

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

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

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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: Health, Safety and Environmental Department.

Zachariah Holt
Abbreviations and acronyms:

Abbreviations and acronyms archandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agre

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