E-mail: gcat@matthey.com

www.alfa-chemcat.com

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

Printing date 25.08.2010 Revision: 25.08.2010

1 Identification of substance

Product details

Trade name 3-Chloro-2,5,6-trifluoropyridine

Stock number:

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:

C Corrosive

Information pertaining to particular dangers

for man and environment

GHS label elements

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R 34 Causes burns.

Danger

H314 - Causes severe skin burns and eye damage.

Warning

H302 - Harmful if swallowed. H312 - Harmful in contact with skin. H332 - Harmful if inhaled.

Prevention: Response:

P303+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P310

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#)

3-Chloro-2,5,6-trifluoropyridine (CAS# 2879-42-7)

4 First aid measures

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. After inhalation

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

Protective equipment:

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

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

Can be released in case of fire: Carbon monoxide and carbon dioxide Hydrogen fluoride (HF)
Nitrogen oxides (NOx)
Possibly Hydrogen cyanide (HCN)
Hydrogen chloride (HCI)

Wear self-contained breathing apparatus.

Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Measures for environmental protection: Measures for cleaning/collecting:

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

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.

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.

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:

Keep ignition sources away - Do not smoke.

Storage Requirements to be met by storerooms and

Information about storage in one common

storage facility:

No special requirements.

Further information about storage

conditions:

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)

Printing date 25.08.2010 Revision: 25.08.2010

Trade name 3-Chloro-2,5,6-trifluoropyridine

(Contd. of page 1) Additional information: 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. Avoid contact with the eyes and skin.

Breathing equipment: Protection of hands:

Material of gloves

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.

Impervious gloves

Penetration time of glove material Not determined Eye protection: Safety glasses
Face protection
Protective work clothing. **Body protection:**

9 Physical and chemical properties:

General Information Form: Liquid Colour: Colourless Smell: Unpleasant

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start: Not determined 132-134°C Not determined

Flash point: > 100°C Ignition temperature: Not determined Decomposition temperature: Not determined

Danger of explosion: Product is not explosive.

Critical values for explosion:

Not determined Lower: Upper: Not determined Steam pressure: Not determined Density Not determined Solubility in / Miscibility with

Water: Not miscible or difficult to mix

10 Stability and reactivity

Thermal decomposition / conditions to be

Materials to be avoided: Dangerous reactions: Oxidizing agents No dangerous reactions known

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide
Hydrogen fluoride
Nitrogen oxides (NOx)
Hydrogen chloride (HCI)
Possibly Hydrogen cyanide (HCN)

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye:

Sensitization: Additional toxicological information: Corrosive effect on skin and mucous membranes.

Strong corrosive effect.

No sensitizing effect known.

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

No decomposition if used and stored according to specifications.

Danger by skin resorption.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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: 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: Recommendation: Disposal must be made according to official regulations.

14 Transport information

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



8 (C9) Corrosive substances. 80 1760

ADR/RID-GGVS/E Class: Kemler Number: UN-Number: Packaging group:

(Contd. on page 3)

(Contd. of page 2)

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

Printing date 25.08.2010 Revision: 25.08.2010

Trade name 3-Chloro-2,5,6-trifluoropyridine

8 1760 CORROSIVE LIQUID, N.O.S. (3-Chloro-2,5,6-trifluoropyridine)

Label
Designation of goods:
Limited quantities (LQ)
Transport category
Tunnel restriction code 3 E

Maritime transport IMDG/GGVSea:

8 1760 IMDG/GGVSea Class: UN Number: Label 8 III Packaging group: Marine pollutant: Correct technical name:

No CORROSIVE LIQUID, N.O.S. (3-Chloro-2,5,6-trifluoropyridine)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: UN/ID Number: 1760 l abel

8 III Packaging group: Correct technical name:

CORROSIVE LIQUID, N.O.S. (3-Chloro-2,5,6-trifluoropyridine)

UN "Model Regulation": UN1760, CORROSIVE LIQUID, N.O.S., 8, III

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

C Corrosive

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Causes hurns Risk phrases:

Causes búrns.

 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 In case of accident or if you feel unwell, seek medical advice immediately (show the label where Safety phrases:

possible).

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: Health, Safety and Environmental Department.

Contact:
Abbreviations and acronyms:

Health, Safety and Environmental Department.

Zachariah Holt

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 RiD: Réglement international Agritime Code for Dangerous Goods

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 Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)