E-mail: gcat@matthey.com

www.alfa-chemcat.com

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

Printing date 26.08.2010 Revision: 26 08 2010

1 Identification of substance

Product details

Trade name 2,6-Dichloro-4-fluoroaniline

Stock number:

Alfa Aesar GmbH & Co.KG Benzstrasse 3 Manufacturer/Supplier:

D-76185 Karlsruhe / Germany

Informing department:

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

2 Hazards identification

Hazard designation:

Toxic

N Dangerous for the environment

Information pertaining to particular dangers

for man and environment

R 24/25 Toxic in contact with skin and if swallowed. R 33 Danger of cumulative effects.

R 36/38 Irritating to eyes and skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS label elements

A Danger

H301 - Toxic if swallowed. H311 - Toxic in contact with skin.

Warning

H373 - May cause damage to organs through prolonged or repeated exposure.

Warning

H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.

Warning

Response:

Warning
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Remove/Take off immediately all contaminated clothing.

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#)

2,6-Dichloro-4-fluoroaniline (CAS# 344-19-4): 100%

4 First aid measures

After skin contact

Prevention:

General information

After inhalation

Instantly remove any clothing soiled by the product. 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 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 nenoxide and carbon dioxide
Nitrogen oxides (NOx)
Hydrogen cyanide (HCN)
Hydrogen fluoride (HF)
Hydrogen chloride (HCI)
Wear self-contained breathing apparatus.
Wear full protective suit

Protective equipment:

Wear full protective suit.

6 Accidental release measures

Measures for cleaning/collecting:

Person-related safety precautions:

Measures for environmental protection:

Wear protective equipment. Keep unprotected persons away.
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. 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 containers:

No special requirements.

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Information about storage in one common

storage facility: Further information about storage

conditions:

Store away from oxidizing agents.

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. Avoid contact with the eyes and skin.

Use breathing protection with high concentrations.

54-58°C Not determined

Breathing equipment: Protection of hands: Material of gloves 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.

Eve protection: Safety glasses Face protection

Body protection: Protective work clothing.

9 Physical and chemical properties:

General	Information	
_		

Crystalline powder Form: Colour: Smell: Pińk Recognizable

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

Not determined Not applicable Flash point: Ignition temperature: Not determined Decomposition temperature: Not determined Product is not explosive

Danger of explosion: Critical values for explosion:

Not determined Lower: Upper: Not determined Steam pressure: Not determined

Density Solubility in / Miscibility with Water:

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

Not determined

Insoluble

No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)
Hydrogen fluoride

Hydrogen chloride (HCI)
Hydrogen cyanide (prussic acid)

11 Toxicological information

Acute toxicity: Primary irritant effect:

on the skin:

Irritant for skin and mucous membranes. Irritant effect.

on the eye: Sensitization:

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 ACGIH.

12 Ecological information:

Ecotoxical effects:

Remark:

Very toxic for fish

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.
Also poisonous for fish and plankton in water bodies.
Do not allow material to be released to the environment without proper governmental permits.

Very toxic for aquatic organisms

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.

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Disposal must be made according to official regulations.

Uncleaned packagings: Recommendation:

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



ADR/RID-GGVS/E Class: 6.1 (T2) Toxic substances. None

60 2811 Kemler Number: UN-Number: Packaging group: Label

Special marking:

6.1 Symbol (fish and tree) 2811 TOXIC SOLID, ORGANIC, N.O.S. (2,6-Dichloro-4-fluoroaniline) LQ9

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

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: None 2811 6.1 UN Number: Label

Packaging group: Marine pollutant:

... Symbol (fish and tree) TOXIC SOLID, ORGANIC, N.O.S. (2,6-Dichloro-4-fluoroaniline) Correct technical name:

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 6.1 None 2811 6.1 III UN/ID Number: Label
Packaging group:
Correct technical name:

TOXIC SOLID, ORGANIC, N.O.S. (2,6-Dichloro-4-fluoroaniline)

UN "Model Regulation":

UN2811, TOXIC SOLID, ORGANIC, N.O.S., 6.1, III Environmentally hazardous substance, solid; Marine Pollutant **Environmental hazards:**

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

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:



Toxic

N Dangerous for the environment

Risk phrases: 24/25 Toxic in contact with skin and if swallowed.

33 Danger of cumulative effects. 36/38 Irritating to eyes and skin.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 After contact with skin, wash immediately with plenty of soap and water.
 Wear suitable protective clothing and gloves.
 In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).
This material and its container must be disposed of as hazardous waste.
Avoid release to the environment. Refer to special instructions/safety data sheets.

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

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:

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Applications and acronyms:

Application acronyms:

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)