E-mail: gcat@matthey.com

www.alfa-chemcat.com

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 28.12.2010 Revision: 28.12.2010

1 Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name 2,3-Dichloro-6-fluorobenzoic acid

Stock number: H26286

Stock number:
Relevant identified uses of the substance or mixture and uses advised against
Sector of Use
SU24
Scientific research and development

Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar GmbH & Co.KG

Benzstrasse 3 D-76185 Karlsruhe / Germany

Informing department: Emergency telephone number:

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

2 Hazards identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

🗶 Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The substance is classified and labelled according to the CLP regulation.

GHS07

Warning Signal word

Hazard statements

H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Specific treatment (see on this label).

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Other hazards

Results of PBT and vPvB assessment PBT:

Not applicable. vPvB:

3 Composition/information on ingredients

Chemical characterization: Substances

(CAS#) Designation: 2,3-Dichloro-6-fluorobenzoic acid (CAS# 32890-91-8)

4 First aid measures

Description of 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.

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 Firefighting measures

Extinguishing media

Suitable extinguishing agents Special hazards arising from the substance

or mixture

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)

Hydroğen chloride (HCI)

Advice for firefighters Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not allow material to be released to the environment without proper governmental permits.

Environmental precautions:

Methods and material for containment and cleaning up:

Reference to other sections

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

Handling

Precautions for safe handling

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

(Contd. on page 2)

(Contd. of page 1)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 28.12.2010 Revision: 28.12.2010

Trade name 2,3-Dichloro-6-fluorobenzoic acid

Information about protection against

explosions and fires: Keep ignition sources away - Do not smoke.

Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and

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/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.

ontrol parameters

Components with critical values that require monitoring at the workplace:
Additional information:

Not required. No data

Exposure controls

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. Impervious gloves

Breathing equipment: Protection of hands: Material of gloves

Not applicable.

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

Information on basic physical and chemical properties

General Information

Appearance: Form: Powder Colour: White Not determined Smell: Odour threshold: Not determined

pH-value:

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 134-136°C Not determined Not determined Flash point: Not applicable

Inflammability (solid, gaseous) Not determined Ignition temperature: Not determined **Decomposition temperature:** Not determined

Self-inflammability: Not determined Danger of explosion: Product is not explosive.

Critical values for explosion:

Not determined Lower: Upper: Not determined Steam pressure: Not applicable.

Not determined Not determined. Density Relative density Vapour density Not applicable. Evaporation rate Not applicable. Segregation coefficient (n-octanol/water): Not determined.

Viscosity:

kinematic:

Not applicable. Not applicable. No further relevant information available. Other information

10 Stability and reactivity

Reactivity Chemical stability Thermal decomposition / conditions to be

Possibility of hazardous reactions Incompatible materials: Hazardous decomposition products:

No decomposition if used and stored according to specifications. No dangerous reactions known

Oxidizing agents Carbon monoxide and carbon dioxide

Hydrogen fluoride Hydrogen chloride (HCI)

11 Toxicological information

Information on toxicological effects

Acute toxicity: Primary irritant effect: on the skin:

on the eye:

Irritant for skin and mucous membranes. Irritant effect.

(Contd. on page 3)

(Contd. of page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 28.12.2010 Revision: 28.12.2010

Trade name 2,3-Dichloro-6-fluorobenzoic acid

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

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.

12 Ecological information

Toxicity
Acquatic toxicity:
Persistence and degradability
Behaviour in environmental systems:

Bioaccumulative potential

Mobility in soil
Additional ecological information:
General notes:

Results of PBT and vPvB assessment PBT:

vPvB:

Other adverse effects

Not applicable.

Not applicable. No further relevant information available.

No further relevant information available. No further relevant information available. No further relevant information available.

No further relevant information available

13 Disposal considerations

Waste treatment methods

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)
ADR/RID-GGVS/E Class: None

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:

Marine pollutant:

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

Special precautions for user

Transport/Additional information:

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

None

None

No

Not applicable. Not dangerous according to the above specifications.

Not applicable.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No
1272/2008

The substance is classified and labelled according to

Hazard pictograms

The substance is classified and labelled according to the CLP regulation.

(!)GHS07

Signal word

Hazard statements

Precautionary statements

Warning
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H319 Cause respiratory irritation.
H319 Cause respiratory irritation.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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. A Chemical Safety Assessment has not been carried out.

Water hazard class: Chemical safety assessment:

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:

Ryan P. Wilson
Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Carriage of Dangerous Goods by Rail)

MDG: International Maritime Code for Dangerous Goods Begulations Concerning the International Air Transport Association

ATA-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)