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

Printing date 23.08.2010 Revision: 23.08.2010

1 Identification of substance

Product details

3,5-Bis(trifluoromethyl)phenyldimethylchlorosilane Trade name

Stock number:

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

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 34 Causes burns. Danger

Prevention: Response:

H314 - Causes severe skin burns and eye damage.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3 Composition/information on ingredients

Chemical characterization:

3,5-Bis(trifluoromethyl)phenyldimethylchlorosilane (CAS# 732306-23-9) Designation: (CAS#)

4 First aid measures

General information

Instantly remove any clothing soiled by the product.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice. After inhalation

After skin contact

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.
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:

CO2, sand, extinguishing powder. Do not use water.

Water.

Can be released in case of fire: Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Silicon oxide

Hydrogen chloride (HCI)
Wear self-contained breathing apparatus.
Wear full protective suit. Protective equipment:

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits. Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.
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:

Handle under dry protective gas.

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.

Store away from water. Store away from oxidizing agents.

Further information about storage

conditions:

Store under dry inert gas.
This product is moisture sensitive.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.
Store in a locked cabinet or with access restricted to technical experts or their assistants.

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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. Do not inhale gases / fumes / aerosols. 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

Impervious gloves

Penetration time of glove material

Eye protection:

Not determined

Safety glasses
Tightly sealed safety glasses.
Face protection

Full face protection **Body protection:** Protective work clothing.

9 Physical and chemical properties:

General Information Form: Liquid Colourless Colour: Smell: Not determined

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 95-96°C (30 mmHg) Not determined Flash point: Not determined 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 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:

No decomposition if used and stored according to specifications.

Water/moisture Oxidizing agents

Reacts

Dangerous reactions: Dangerous products of decomposition:

No dangerous reactions known Carbon monoxide and carbon dioxide

Hydrogen fluoride Sílicon oxide

Hydrogen chloride (HCI)

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye:

Corrosive effect on skin and mucous membranes. Strong corrosive effect.

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.

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:

Disposal must be made according to official regulations. Recommendation:

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14 Transport information

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



ADR/RID-GGVS/E Class: Kemler Number: 8 (C3) Corrosive substances.

X80 2987 UN-Number: ĪÌ

Packaging group: Label

8 2987 CHLOROSILANES, CORROSIVE, N.O.S. (3,5-Bis(trifluoromethyl)phenyldimethylchlorosilane)

Designation of goods: Limited quantities (LQ) Transport category LQ22 É Tunnel restriction code

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: UN Number: 8 2987 Label Packaging group: EMS Number: A,S-B

Marine pollutant: Segregation groups Correct technical name: No

Acids CHLOROSILANES, CORROSIVE, N.O.S. (3,5-Bis(trifluoromethyl)phenyldimethylchlorosilane)

Air transport ICAO-TI and IATA-DGR:



8 2987 ICAO/IATA Class: UN/ID Number: Label

Packaging group: Correct technical name:

CHLOROSILANES, CORROSIVE, N.O.S. (3,5-Bis(trifluoromethyl)phenyldimethylchlorosilane)

UN "Model Regulation": UN2987, CHLOROSILANES, CORROSIVE, N.O.S., 8, II

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

C Corrosive

Risk phrases: 34 Causes burns.

Safety phrases:

Do not breathe fumes. 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

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: 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: 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 Transport of Dangerous Goods by Rail)

IMDG: International Maritime 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: International Civil Aviation Organization

ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globalhi darmonized System of Classification and Labelling of Chemicals

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