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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

N-[4-(Trifluoromethyl)phenyl]thiourea Trade name

Stock number:

Alfa Aesar GmbH & Co.KG Manufacturer/Supplier:

Benzstrasse 3 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:

T Toxic

Information pertaining to particular dangers for man and environment GHS label elements

R 25 Toxic if swallowed.

Danger

H301 -Toxic if swallowed. P380 Wear protective clothing.
P309 IF exposed or if you feel unwell:
P310 Immediately call a POISON CENTER or doctor/physician. Prevention: Response:

3 Composition/information on ingredients

Chemical characterization:

Designation: (CAS#) N-[4-(Trifluoromethyl)phenyl]thiourea (CAS# 1736-72-7)

4 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. Seek immediate medical advice. After skin contact

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

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 monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Sulphur oxides (SOx) Hydrogen fluoride (HF) Wear self-contained breathing apparatus.

Protective equipment:

Wear full protective suit.

6 Accidental release measures

Person-related safety precautions: 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.

Measures for environmental protection: Measures for cleaning/collecting:

Ensure adequate ventilation.

Additional information:

See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

Keep ignition sources away - Do not smoke.

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

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

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.

Breathing equipment: Protection of hands:

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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 Material of gloves

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

9 Physical and chemical properties:

General Information

Crystalline powder White Colour: Smell: Odourless Change in condition

Form:

Melting point/Melting range: Boiling point/Boiling range: 142-146°C Not determined Sublimation temperature / start: Not determined Flash point: Not applicable

Ignition temperature: Not determined Decomposition temperature: Not determined

Danger of explosion: Product is not explosive.

Critical values for explosion:

Not determined Upper: Not determined Steam pressure: Not determined Density Not determined

Solubility in / Miscibility with Water:

Insoluble

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

Oxidizing agents
No dangerous reactions known
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Sulphur oxides (SOx)
Hydrogen fluoride
Possibly Hydrogen cyanide (HCN)

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye: Sensitization:

May cause irritation

Additional toxicological information:

May cause irritation
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:

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)



ADR/RID-GGVS/E Class: 6.1 (T2) Toxic substances.

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

III
6.1
2811 TOXIC SOLID, ORGANIC, N.O.S. (N-[4-(Trifluoromethyl)phenyl]thiourea) Designation of goods: Limited quantities (LQ)

Transport category Tunnel restriction code

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class:

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UN Number: Label 2811 6.1 Ш

Packaging group: EMS Number: -A,S-A Marine pollutant:

No TOXIC SOLID, ORGANIC, N.O.S. (N-[4-(Trifluoromethyl)phenyl]thiourea) Correct technical name:

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: UN/ID Number: 6.1 2811 6.1

III TOXIC SOLID, ORGANIC, N.O.S. (N-[4-(Trifluoromethyl)phenyl]thiourea) Packaging group: Correct technical name:

UN "Model Regulation": UN2811, TOXIC SOLID, ORGANIC, N.O.S., 6.1, III

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

T Toxic

Risk phrases: 25 Toxic if swallowed.

Safety phrases:

36 Wear suitable protective clothing.
45 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.

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: Règlement 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 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-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)