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

Printing date 11.08.2010 Revision: 11.08.2010

1 Identification of substance

Product details

2-Acetyl-4-chlorothiophene Trade name

Stock number:

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG

Benzstrasse 3

D-76185 Karlsruhe / Germany

Informing department: Product safety department.

Emergency information: Giftnotruf Universität Mainz / Poison Information Center Mainz

H30384

www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

Prevention:

Xn Harmful

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.

Warning

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

Response:

H312 - Harmful in contact with skin.
H332 - Harmful if inhaled.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SkIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P322 Specific measures (see on this label).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal:

3 Composition/information on ingredients

Chemical characterization:

2-Acetyl-4-chlorothiophene (CAS# 34730-20-6): 100% Designation: (CAS#)

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.

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. After eve contact

After swallowing 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 Hydrogen chloride (HCl) Sulphur oxides (SOx)

Wear self-contained breathing apparatus. Protective equipment:

Wear full protective suit.

6 Accidental release measures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Person-related safety precautions:

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits. 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. Measures for cleaning/collecting:

Additional information:

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:

Not required.

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Additional information:

No data

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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.

Breathing equipment: Protection of hands:

Material of gloves

varies from manufacturer to manufacturer. Impervious gloves Not determined

Penetration time of glove material

Eye protection: Body protection:

Safety glasses Protective work clothing.

9 Physical and chemical properties:

General Information

Form: Colourless Not determined Colour: Smell:

Change in condition
Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined Sublimation temperature / start: Not determined Flash point: Not determined

Ignition temperature: Not determined Decomposition temperature: Not determined

Danger of explosion:

Critical values for explosion:

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

Density at 20°C Solubility in / Miscibility with

Not miscible or difficult to mix

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Materials to be avoided:

Dangerous reactions:

Dangerous products of decomposition:

Product is not explosive.

1.334 a/cm³

Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Sulphur oxides (SOx)

11 Toxicological information

Acute toxicity:

Primary irritant effect: on the skin:

on the eye: Sensitization:

Additional toxicological information:

May cause irritation

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.

Danger by skin resorption.

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

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.

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 (T1) Toxic substances.

Kemler Number:

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Trade name **2-Acetyl-4-chlorothiophene**

UN-Number: Packaging group: 2810 III

Designation of goods: Limited quantities (LQ) Transport category 2810 TOXIC LIQUID, ORGANIC, N.O.S. (2-Acetyl-4-chlorothiophene) LQ7 2 E

Tunnel restriction code

Maritime transport IMDG/GGVSea:

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

No TOXIC LIQUID, ORGANIC, N.O.S. (2-Acetyl-4-chlorothiophene)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 2810 6.1 UN/ID Number: Label

Packaging group: Correct technical name: TOXIC LIQUID, ORGANIC, N.O.S. (2-Acetyl-4-chlorothiophene)

UN "Model Regulation": UN2810, TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

Xn Harmful

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

36/37 Wear suitable protective clothing and gloves. Safety phrases:

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: 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 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)