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

Printing date 02.08.2010 Revision: 02.08.2010

1 Identification of substance

Product details

Trade name Trimethylhydroquinone

Stock number:

B22819, L14722

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG

Benzstrasse 3 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:

GHS label elements

Xn Harmful N Dangero Dangerous for the environment

Information pertaining to particular dangers

for man and environment

R 20 Harmful by inhalation.
 R 37/38 Irritating to respiratory system and skin.
 R 43 May cause sensitisation by skin contact.
 R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Danger

H311 - Toxic in contact with skin.

Warning

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

H410 - Very toxic to Garden Warning
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
P361 Remove/Take off immediately all contaminated clothing. Prevention: Response:

Storage:

P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal:

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#) Identification number(s):

Trimethylhydroquinone (CAS# 700-13-0): 100%

EINECS Number: Index number: 211-838-3 604-045-00-2

4 First aid measures

After skin contact

After inhalation

Supply fresh air and call for doctor for safety reasons.
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. 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:

Protective equipment:

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 Wear self-contained breathing apparatus.

Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection: Measures for cleaning/collecting: Do not allow material to be released to the environment without proper governmental permits. Dispose of contaminated material as waste according to item 13.

Additional information:

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 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:

Information about storage in one common

conditions:

storage facility: Further information about storage

No special requirements.

Store away from oxidizing agents.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

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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.
Avoid contact with the skin.
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.
Safety glasses

Breathing equipment: Protection of hands: Material of gloves

Eye protection:

Safety glasses
Face protection
Protective work clothing. **Body protection:**

9 Physical and chemical properties:

General Information

Form:

Colour: White Cream coloured

Not determined Smell:

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

169-172°C Not determined Not determined

Flash point: Ignition temperature: 140°C Not determined Not determined

Decomposition temperature: Danger of explosion:

Product is not explosive.

Critical values for explosion:

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

Density Not determined

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided: Materials to be avoided:

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

Dangerous reactions: Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

LD50 3200 mg/kg (rat) Oral Dermal LD50 >200 mg/kg (rabbit)

Inhalative | LC50/4H | 1500 mg/m3/4H (rat) Primary irritant effect: on the skin: on the eye:

Sensitization:

Irritant for skin and mucous membranes. Irritant effect.

Additional toxicological information:

Sensitization possible by skin contact.
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.

Sensitisation May cause sensitisation by skin contact.

12 Ecological information:

Ecotoxical effects: Remark:

Very toxic for fish

Additional ecological information: General notes:

Do not allow product to reach ground water, water bodies or sewage system. Water hazard class 2 (Self-assessment): hazardous for water. Danger to drinking water if even small quantities leak into soil. 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.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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14 Transport information

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

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ADR/RID-GGVS/E Class: Kemler Number: 9 (M7) Miscellaneous dangerous substances and articles.

90 3077 UN-Number: III Packaging group: Label

Special marking:

Symbol (fish and tree) 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trimethylhydroquinone) 27

Designation of goods: Limited quantities (LQ) Transport category
Tunnel restriction code 3 E

Maritime transport IMDG/GGVSea:

ЛIII

9 3077 IMDG/GGVSea Class: UN Number: Label Packaging group: Marine pollutant: Correct technical name: ĬII

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trimethylhydroguinone)

Air transport ICAO-TI and IATA-DGR:

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ICAO/IATA Class: UN/ID Number: 9 3077 Label

Special marking: Symbol (fish and tree)

Packaging group: Correct technical name:

... ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trimethylhydroquinone)

UN "Model Regulation": UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

Risk phrases:

Xn Harmful N Dangerous for the environment

Harmful by inhalation.
 37/38 Irritating to respiratory system and skin.
 May cause sensitisation by skin contact.
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

24 Avoid contact with skin. Safety phrases:

Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

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

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals. Information about limitation of use:

Water hazard class 2 (Self-assessment): hazardous for water. Water hazard class:

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. not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the asci.

Department issuing data specification sheet:
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: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAC: International Civil Aviation Organization
ICAC-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent

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