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

Printing date 22.07.2010 Revision: 22.07.2010

1 Identification of substance

Product details

Trade name Isopropyl propionate

Stock number:

A19052, L05775

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:

F Highly flammable

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

R 11 Highly flammable.

Danger

H225 - Highly flammable liquid and vapour.

Prevention:

Response:

H225 - Highly flammable liquid and vapour.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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): Isopropyl propionate (CAS# 637-78-5): 100%

211-300-8 607-257-00-3 **EINECS Number:** Index number:

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.

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 For safety reasons unsuitable extinguishing

agents
Special hazards caused by the material, its products of combustion or flue gases:

Protective equipment:

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

Water.

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:

Measures for environmental protection: Measures for cleaning/collecting:

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
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).
Ensure adequate ventilation.
Keep away from ignition sources.
See Section 7 for information on safe handling

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.

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. Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.

Storage

Requirements to be met by storerooms and

containers:

Information about storage in one common

storage facility: Further information about storage

conditions:

Store in cool location.

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.

(Contd. on page 2)

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Additional information:

No data

(Contd. of page 1)

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. 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

Safety glasses Face protection

Not determined

Protective work clothing.

9 Physical and chemical properties:

General Information

Eye protection: **Body protection:**

> Liquid Not determined Form: Smell:

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Flash point: 15°C

Ignition temperature:

Decomposition temperature: Not determined

Critical values for explosion:

Not determined Upper: Not determined Not determined Steam pressure: Density at 20°C 0.87 g/cm³

Solubility in / Miscibility with

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided:

No decomposition if used and stored according to specifications. Materials to be avoided: Oxidizing agents No dangerous reactions known

Slightly soluble

Dangerous reactions:

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye: Sensitization:

Additional toxicological information:

Irritant for skin and mucous membranes.

Irritant effect.

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

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:

3 (F1) Flammable liquids.

Kemler Number: UN-Number: Packaging group: 33 3272

Label Designation of goods: Limited quantities (LQ) 3 3272 ESTERS, N.O.S. (Isopropyl propionate)

Transport category Tunnel restriction code Ď/E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 3

(Contd. on page 3)

(Contd. of page 2)

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Trade name Isopropyl propionate

UN Number: Label 3272 3 !!

Packaging group: Marine pollutant: Correct technical name:

ESTERS, N.O.S. (Isopropyl propionate)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: UN/ID Number: 3 3272 Label 3 ||

Packaging group: Correct technical name: ESTERS, N.O.S. (Isopropyl propionate)

UN "Model Regulation": UN3272, ESTERS, N.O.S., 3, II

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

F Highly flammable

Risk phrases: 11 Highly flammable.

Safety phrases:

16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
24 Avoid contact with skin.
29 Do not empty into drains.
33 Take precautionary measures against static discharges.

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: 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: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International RID: Règlement international Martime Code for Dangerous Goods
IATA: International Martime 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