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Printing date 20.08.2010 Revision: 20.08.2010

1 Identification of substance

**Product details** 

Trade name Ethyl 4-nitrophenylglyoxylate

Stock number:

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG Benzstrasse 3

D-76185 Karlsruhe / Germany Product safety department.

Informing department: Emergency information:

Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

Information pertaining to particular dangers for man and environment

GHS label elements

void

Not applicable Void

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#)

Ethyl 4-nitrophenylglyoxylate (CAS# 70091-75-7): 100%

4 First aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

After skin contact

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.

After eye contact After swallowing

Seek medical treatment.

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)

Protective equipment:

self-contained breathing apparatus. Wear full protective suit.

6 Accidental release measures Person-related safety precautions:

Measures for environmental protection: Measures for cleaning/collecting: Additional information:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits.

Collect mechanically.

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. No special precautions necessary if used correctly.

Keep ignition sources away - Do not smoke.

Information about protection against explosions and fires:

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. 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 Not determined

Eye protection: Body protection: Safety glasses
Protective work clothing.

9 Physical and chemical properties:

Penetration time of glove material

**General Information** 

Form: Crystalline Light brown Orange Colour:

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

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# Trade name Ethyl 4-nitrophenylglyoxylate

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		(Contd. of page 1)
Smell:	Not determined	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	40-42°C 152-157°C (0.5 mmHg) 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: Lower: Upper:	Not determined 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
No dangerous reactions known
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)

### 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.
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:

Generally not hazardous for water. 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:
None

Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:

Marine pollutant:

None No

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:

None

Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information

Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

National regulations

Information about limitation of use: For use only by technically qualified individuals.

Water hazard class: Generally not 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 Agritime Code for Dangerous Goods IATA: International Agritime Code for Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAC: International Civil Aviation Organization

ICAC: The 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)