E-mail: gcat@matthey.com

www.alfa-chemcat.com

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

Trade name 2-Methoxy-4-nitrophenyl isothiocyanate

Stock number:

Alfa Aesar GmbH & Co.KG Manufacturer/Supplier:

Benzstrasse 3 D-76185 Karlsruhe / Germany

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

Informing department:

Hazard designation:

C Corrosive

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. R 34 Causes burns.

Danger

H314 - Causes severe skin burns and eye damage.

H302 - Harmful if swallowed. H312 - Harmful in contact with skin. H332 - Harmful if inhaled.

Prevention:

Response:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

P305+P351+P358 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Warning

Storage: Disposal:

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#)

2-Methoxy-4-nitrophenyl isothiocyanate (CAS# 190774-55-1): 100%

4 First aid measures

Instantly remove any clothing soiled by the product. Supply fresh air; consult doctor in case of symptoms General information After inhalation After eye contact After swallowing Rinse opened eye for several minutes under running water. 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, sand, extinguishing powder. Do not use water.

Carbon monoxide and carbon dioxide Carbon monoxide and Carbon dioxide
Nitrogen oxides (NOx)
Hydrogen cyanide (HCN)
Sulphur oxides (SOx)
Can be released in case of fire:
Wear self-contained breathing apparatus.

Protective equipment:

Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Measures for environmental protection:

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not allow material to be released to the environment without proper governmental permits. Use neutralizing agent.
Dispose of contaminated material as waste according to item 13.

Measures for cleaning/collecting:

Dispose of contaminated material as waste according to item 15 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.

Additional information:

7 Handling and storage

Handling Information for safe handling:

Handle under dry protective gas. 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

storage facility:

No special requirements.

Store away from water. Store away from oxidizing agents.

Further information about storage

conditions:

Store under dry inert gas.
This product is moisture sensitive.
Protect from humidity and keep away from water.
Store in a locked cabinet or with access restricted to technical experts or their assistants.

8 Exposure controls and personal protection

Components with critical values that require

monitoring at the workplace:

Not required.

(Contd. on page 2)

(Contd. of page 1)

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

Printing date 23.08.2010 Revision: 23.08.2010

The usual precautionary measures should be adhered to in handling the chemicals.

Trade name 2-Methoxy-4-nitrophenyl isothiocyanate

Additional information: No data

Personal protective equipment General protective and hygienic measures

Avoid contact with the eyes and skin.

Protection of hands: Material of gloves Penetration time of glove material

Eye protection:

Impervious gloves Not determined

Safety glasses
Tightly sealed safety glasses.

ace protection Full face protection
Protective work clothing.

Body protection:

9 Physical and chemical properties:

General Information

Powder Colour: Yellow Smell: Irritant

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 107-109°C Not determined Not determined Flash point: Not applicable

Ignition temperature: Not determined Decomposition temperature: Not determined Product is not explosive. Danger of explosion:

Critical values for explosion:

Upper: Steam pressure: Density

Not determined Hydrolyzes

Solubility in / Miscibility with Water

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided: Materials to be avoided:

No decomposition if used and stored according to specifications. Water/moisture

Alcohols Amines Oxidizing agents

Not determined

Not determined Not determined

Dangerous reactions: Dangerous products of decomposition:

No dangerous reactions known
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Hydrogen cyanide (prussic acid)
Sulphur oxides (SOx)

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye: Sensitization:

Corrosive effect on skin and mucous membranes. Strong corrosive effect.

Additional toxicological information:

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.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of

esophagus and stomach.

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: 8 (CT2) Corrosive substances.

86 2923 Kemler Number: UN-Number: Packaging group: ĪΪ 8+6.1 Label

2923 CORROSIVE SOLID, TOXIC, N.O.S. (4-Chloro-3-nitrophenyl isothiocyanate) **Designation of goods:**

(Contd. on page 3)

(Contd. of page 2)

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

Printing date 23.08.2010 Revision: 23.08.2010

Trade name 2-Methoxy-4-nitrophenyl isothiocyanate

Limited quantities (LQ) Transport category LQ24 3 E Tunnel restriction code

Maritime transport IMDG/GGVSea:



8 2923 8+6.1 III IMDG/GGVSea Class: UN Number: Label Packaging group: EMS Number: F-A,S-B Marine pollutant:

CORROSIVE SOLID, TOXIC, N.O.S. (4-Chloro-3-nitrophenyl isothiocyanate) Correct technical name:

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: UN/ID Number: 8 2923 Label Packaging group: Correct technical name: 8+6.1

CORROSIVE SOLID, TOXIC, N.O.S. (4-Chloro-3-nitrophenyl isothiocyanate)

UN "Model Regulation": UN2923, CORROSIVE SOLID, TOXIC, N.O.S., 8 (6.1), III

15 Regulatory information

Designation according to EC guidelines: Code letter and hazard designation of

product:



C Corrosive

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

Safety phrases:

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

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where

National regulations

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

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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:

Zachariah Holt

Abbreviations and acronyms:

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 Air Transport Association
IATA: International Air Transport Association
IATA: Ploth: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: International Civil Aviation Organization
ICAO: T: 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)

GB