

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: 2-Nitrophenyl isothiocyanate
Stock number: L09669
CAS Number: 2719-30-4
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Details of the supplier of the safety data sheet Manufacturer/Supplier:
Alta Aesar
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
Ward Hill, MA 01835-8099 Tel: 800-343-0660
Fax: 800-322-4757 Email: tech@alfa.com
www.alfa.com Information Department: Health, Safety and Environmental Department
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS06 Skull and crossbones
Acute Tox. 3 H331 Toxic if inhaled.
GHS05 Corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms
GHS05 GHS06
Signal word Danger
Hard statements H302+H312 Harmful if swallowed or in contact with skin.
H331 Toxic if inhaled.
H314 Causes severe skin burns and eye damage. Precautionary statements D260
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D1B - Toxic material causing immediate and serious toxic effects
D2B - Toxic material causing other toxic effects E - Corrosive material
Classification system HMIS ratings (scale 0-4) (Uncounter a Material Intertification System)
(Hazardous Materials Identification System)
HEALTH I HEALTH I FIRE I FREACTIVITY I Physical Hazard = 1
Other hazards
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances
CAS# Description: 2719-30-4 2-Nitrophenyl isothiocyanate
USA

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4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor	
Most important symptoms and effects, both acute and delayed Causes severe skin burns.	
Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.	
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx)	
Hydrogen cyanide (HCN) Sulfur oxides (SOx) Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up:	
Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.	
Prevention of secondary hazards: No special measures required. Reference to other sections	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
7 Handling and storage Handling	
Precautions for safe handling Handle under dry protective gas.	
Keep container tightly sealed. Store in cool, dry place in tightly closed containers	
Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility:	
Store away from oxidizing agents. Store away from water/moisture.	
Further information about storage conditions: Store under dry inert gas. This product is moieting someiting	
This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water.	
Protect from humidity and water. Specific end use(s) No further relevant information available.	
8 Exposure controls/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.	
Control parameters	
Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Exposure controls Personal protective equipment	
General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintein on composition working onvironment.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:	
Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined	(Contd. on page 3)
	USA USA

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Eye pro	tection:
Tiahtlv s	ealed aoaales
Fŭll fáce	protection
Body pr	otection: Protective work clothing

9 Physical and chemical properties			
Information on basic physical and chemical properties General Information			
Appearance:			
Form: Color:	Crystalline powder Yellow		
Odor:	Irritating		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range:	72 76 °C (162 160 °E)		
Boiling point/Boiling range:	73-76 °C (163-169 °F) 135-137 °C (275-279 °F) (17mm Hg)		
Sublimation temperature / start:	Not determined		
Flash point:	> 110 °C (> 230 °F)		
Flammability (solid, gaseous) Ignition temperature:	Not determined. ´		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper:	Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Hydrolyzes		
Partition coefficient (n-octanol/water, Viscosity:): Not determined.		
dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under recommended storage conditions.			
Thermal decomposition / conditions	Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known		
Conditions to avoid No further relevant information available.			

Conditions to avoid No further relevant information available. Incompatible materials: Alcohols Alcohóls Amines Oxidizing agents Water/moisture **Hazardous decomposition products:** Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen cyanide Sulfur oxides (SOx) 11 Toxicological information Information on toxicological effects Information on toxicological enects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Harmful is swallowed. Danger through skin absorption. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Even intration or corrosion: Causes severe skin hums

LD/LC50 Values that are relevant for classification: No data Skin irritation or corrosion: Causes servere skin burns. Eye irritation or corrosion: Causes servere skin burns. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12 Ecological information

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

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Product name: 2-Nitrophenyl isothiocyanate (Contd. of page 3) Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN2923 UN proper shipping name Corrosive solids, toxic, n.o.s. (2-Nitrophenyl isothiocyanate) CORROSIVE SOLID, TOXIC, N.O.S. (2-Nitrophenyl isothiocyanate) ĨMDG, IATA Transport hazard class(es) DOT Class 8 Corrosive substances. 8+6.1 Label Class 8 (CT2) Corrosive substances 8+6.1 Labe IMDG, IATA 8 Corrosive substances. Class Label 8+6.1 Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Special precautions for user Warning: Corrosive substances F-A,S-B EMS Number: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN2923, Corrosive solids, toxic, n.o.s. (2-Nitrophenyl isothiocyanate), 8 (6.1), III 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms R GHS05 GHS06 Signal word Danger

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 Hazard statements

 H302+H312 Harmful if swallowed or in contact with skin.

 H331
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 H314
 Causes severe skin burns and eye damage.

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 Precautionary statements

 P260
 Do not breathe dust/fume/gas/mist/vapours/spray.

 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

 P405

 Store locked up

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

market and use must be observed. Substance is not listed

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

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USA

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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms:
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGE: Dangerous Goods Regulations by the 'International Air Transport Association" (IATA)
CAO: International Civil Aviation Organization
CAO: International Civil Aviation Organization
CAO: International Maritime Code for Dangerous Goods
Dot US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDC: International Maritime Code for Dangerous Goods
DOT: US Department of Transport des marchandises double (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDC: International Air Transport Association
(IATA)
CAS: Chemical Abstrats Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
VPWE very Persistent and very Bioaccumulative
ACGIH: American Abstration So percent
LD50: Lethal dose, 50 percent
VPWE very Persistent and very Bioaccumulative
ACGIH: American Association (USA)
IMP: National Toxicology Program (USA)
IAFA: Occupational Agreey for Research on Cancer
EPA: Environmental Protection Agency (USA)