

Safety Data Sheet per OSHA HazCom 2012

Review	wed on 05/21/2009
1 Identification	
Product identifier	
Product name: <u>o-Tolyl isocyanate</u>	
Stock number: L12247 CAS Number:	
614-68-6 EC number:	
210-389-0 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa 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. 2 H330 Fatal if inhaled.	
GHS08 Health hazard	
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation.	
H227 Combustible liquid. Hazards not otherwise classified Lachrymator	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06 GHS08	
Signal word Danger Hazard statements U992 Contextitute limited	
H227 Combustible liquid. H302 Harmful if swallowed.	
H330 Fatal if inhaled. H315 Causes skin irritation.	
H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.	
Precautionary statements	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P320 Specific treatment is urgent (see on this label).	<i>g.</i>
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification B3 - Combustible liquid D14 - Very state indexinal acuainar immediate and carious taxis effects	
D1A - Very toxic material causing immediate and serious toxic effects D2A - Very toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4) (Uservice Uservice Interviction System)	
(Hazardous Materials Identification System) দল্মান 📱 Health (acute effects) = 3	
FIRE 2 Flammability = 2 REACTIVITY Physical Hazard = 1	
	(Contd. on page 2)
	USA

Product name: o-Tolyl isocyanate

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable

3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 614-68-6 o-Toly/ isocyanate Identification number(s): EC number: 210-389-0

4 First-aid measures

Description of first aid measures General information

Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

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 immediate 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 No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. 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) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. Extinguishing media

6 Accidental release measures

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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. **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. Ensure good ventilation at the workplace. Open and handle container with care. Prevent formation of aerosols. Information about protection against explosions and fires: Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Information about storage in one common stor Protect from heat. Store away from water/moisture. Do not store together with acids. Store away from strong bases. Store away from oxidizing agents. Store away from alcohols. Store away from amines. Further information about storage conditions: Store under dry inert gas Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Protect from humidity and water. Refriaerate 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.

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	(Contd. of page 2)
Control parameters	
Components with limit values that re	equire monitoring at the workplace:
The product does not contain any relev	ant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: No data	
Exposure controls	
Personal protective equipment	
General protective and hygienic mea	Isures
The usual precautionary measures for I	handling chemicals should be followed.
Keep away from foodsfuffs, beverages Remove all soiled and contaminated clo Wash hands before breaks and at the e	and feed.
Wash hands before breaks and at the	Juning uninectately.
Store protective clothing separately	
Avoid contact with the eyes and skin.	working environment. ned respiratory protective device in emergency situations.
Maintain an ergonomically appropriate	working environment.
Breathing equipment: Use self-contain	ned respiratory protective device in emergency situations.
Recommended filter device for short	term use:
respirators are appropriate. Only use e	d gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).
Protection of hands:	
Impenvious aloves	
Check protective gloves prior to each u	se for their proper condition.
The selection of suitable gloves not onl	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Frenetration time of glove material (in	se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. n minutes) Not determined
Eye protection: Safety glasses Body protection: Protective work cloth	
Body protection. I Totective Work Cloth	ing.
9 Physical and chemical properties	s
Information on basic physical and ch	
General Information	iennear properties
Appearance:	
Form:	Liquid
Color:	Cólorless
Odor:	Pungent
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	186 °C (367 °F)
Sublimation temperature / start:	Not determined
Flash point:	92 °C (198 °F)
Flammability (solid, gaseous)	Not determinéd.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	Not determined
Lower: Upper:	Not determined Not determined
Vapor pressure:	Not determined
Density at 20 °C (68 °F):	1.074 g/cm ³ (8.963 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	Li udvelu men
Water: Partition coefficient (n-octanol/water	Hydrolyzes
	, Not dotornimou.
dvnamic:	Not determined.
kinematic:	Not determined.
Other information	No further relevant information available.
kinematic: Other information 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom	Not determined. Not determined. No further relevant information available. Intended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. with NH. OH or SH groups
Incompatible materials	it information available.
Incompatible materials:	
Acids Alcohols	
710011013	

Acids Alcohols Amines Oxidizing agents Water/moisture Bases Heat **Hazardous decomposition products:** Carbon monoxide and carbon dioxide Nitrogen oxides

11 Toxicological information

Information on toxicological effects Acute toxicity: Harmful if swallowed. Fatal if inhaled. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

(Contd. on page 4) USA

LD/LC50 values that are relevant for classification:	(Cont	d. of pag
Oral LD50 400 mg/kg (guinea pig)		
1600 mg/kg (rat)		
Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion:		
Causes serious eye irritation.		
This product is a lachrymator. Sensitization: May cause allergy or asthma symptoms or b Germ cell mutagenicity: No effects known.	breathing difficulties if inhaled.	
Germ cell mutagénicity: No effects known.	operties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects known.		
Specific target organ system toxicity - repeated exposu Specific target organ system toxicity - single exposure	ire: No effects known. : May cause respiratory irritation	
Specific target organ system toxicity - single exposure: Aspiration hazard: No effects known.		
Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTE	ECS) reports the following effects in laboratory animals:	
The Registry of Toxic Effects of Chemical Substances (RTE Behavioral - muscle weakness. Behavioral - ataxia.		
Lungs, Thorax, or Respiration - dyspnea.		
Additional and Gross Metabolic - weight loss or decreased Additional toxicological information: To the best of our k	weight gain. knowledge the acute and chronic toxicity of this substance is not fully known.	
Ecological information		
Toxicity Aquatic toxicity: No further relevant information available.		
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant informa Bioaccumulative potential No further relevant information	ation available.	
Mobility in soil No further relevant information available.	i avaliable.	
Additional ecological information: General notes:		
Do not allow material to be released to the environment with	hout proper governmental permits.	
Do not allow undiluted product or large quantities to reach g Avoid transfer into the environment.	ground water, water course or sewage system.	
Results of PBT and vPvB assessment		
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further relevant information avail	ilable.	
Disposal considerations		
Disposal considerations Waste treatment methods		
Waste treatment methods Recommendation Consult state, local or national regulation	ons to ensure proper disposal.	
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GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

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Hazard pictograms GHS06 GHS08 Signal word Danger Hazard statements H227 Combustible liquid. H302 Harmful if swallowed. H330 Fatal if inhaled. H350 Fata in Initialeu. H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. **Precautionary statements** P210

 Precautionary statements

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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

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

 P320
 Specific treatment is urgent (see on this label).

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 P320 P405 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). 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, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the market and use must b market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. 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. Information to onsole in poper. Jose and provide the process of the 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-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: The rechnical Instructions by the "International Air Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Waitime 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)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transport Association
IATA: International State Constraints (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LESO: Lethal concentration, 50 percent
VPW: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
ITP: National Toxicology Program (USA)
ITP: National Toxicology Program (USA) USA