

## Safety Data Sheet per OSHA HazCom 2012

	Reviewed on 05/29/2009
1 Identification	
Product identifier	
Product name: <b>2,6-Dimethylphenyl isocyanate</b> Stock number: L12805	
CAS Number: 2005 28556-81-2	
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:	
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 (8	66) 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 H300 Fatal if swallowed.	
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	
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 H227 Combustible liquid. H300+H330 Fatal if swallowed or 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. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Contin P320 Specific treatment is urgent (see on this label).	ue rinsing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification B3 - Combustible liquid	
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) (IMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
HEALTH     3       FIRE     2       Flammability = 2       REACTIVITY     Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable.	
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rioduct name. 2,0-Dimetry/prienty/iSocyanate	
	(Contd. of page 1)
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 28556-81-2 2,6-Dimethylphenyl isocyanate	
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. <b>After inhalation</b>	
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 Do not induce vomiting; immediately call for medical help.	
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 in case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. For safety reasons unsuitable extinguishing agents 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) 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	
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. <b>Prevention of secondarv hazards:</b> Keep awav 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 fightly sealed.	
Ensure good ventilation at the workplace. Open and handle container with care.	
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:	
Protect from heat. Store away from water/moisture.	
Do not store together with acids. Store away from strong bases.	
Store away from oxidižing agents. Store away from alcohols. Store away from alcohols.	
Store away from amines. Further information about storage conditions: Store under draw inort acc	
Store under dry inert gas. This product is moisture sensitive. Keen container tightly sealed	
Keep container tightly sealed. Protect from humidity and water. Refrigerate	
Service and set and the set of th	
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:	
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data	
Auditional Information. NO trata	(Contd. on page 3)

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## Safety Data Sheet per OSHA HazCom 2012

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		(Contd. of page 2)		
Exposure controls				
Personal protective equipment General protective and hygienic meas	sures			
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.				
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.				
Wash hands before breaks and at the er	d of work.			
Store protective clothing separately. Do not inhale dust / smoke / mist.				
Avoid contact with the eves and skin.				
Maintain an ergonomically appropriate w Breathing equipment: Use self-contain	vorking environment. ed respiratory protective device in emergency situations. <b>term use:</b>			
Recommended filter device for short	lerm use:			
Use a respirator with organic vapor/acid respirators are appropriate. Only use ec	gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if uipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU)	air-puritying		
Protection of hands:		,-		
Impervious gloves Check protective gloves prior to each us	e for their proper condition			
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.				
Penetration time of glove material (in Eye protection: Safety glasses	minutes) Not determined			
Body protection: Protective work clothi	ng.			
0 Physical and chamical properties				
9 Physical and chemical properties				
Information on basic physical and che General Information	anical properties			
Appearance:				
Form: Color:	Liquid Colorless to yellow			
Odor:	Pungent			
Odor threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition Melting point/Melting range:	Not determined			
Boiling point/Boiling range:	71-72 °C (160-162 °F) (3mm)			
Sublimation temperature / start:	Not determined			
Flash point: Flammability (solid, gaseous)	86 °C (187 °F) Not determined.			
Ignition temperature:	Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits:				
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not determined			
Density at 20 °C (68 °F):	1.057 g/cm³ (8.821 lbs/gal)			
Relative density Vapor density	Not determined. Not determined.			
Evaporation rate	Not determined.			
Solubility in / Miscibility with Water:	Hydrolyzes			
Partition coefficient (n-octanol/water)	Not détermined.			
Viscosity: dynamic:	Not determined.			
kinematic:	Not determined.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Chemical stability Stable under recom	nended storage conditions. <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications.			
Thermal decomposition / conditions t Possibility of hazardous reactions Re	o be avoided: Decomposition will not occur if used and stored according to specifications.			
Conditions to avoid No further relevant	information available.			
Incompatible materials: 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: Fatal if inhaled.				
Fatal if swallowed.				
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes sk				
Eve irritation or corrosion:				
Causes serious eye irritation. This product is a lachrymator.				
Sensitization: May cause allergy or ast	hma symptoms or breathing difficulties if inhaled. wm.			
Germ cen mutagenicity: No effects kno	WII.	(Contd. on page 4)		
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## Product name: 2,6-Dimethylphenyl isocyanate

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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 - single exposure: May cause respiratory irritation. 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			
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. 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	UN2206		
UN proper shipping name DOT IMDG, IATA	Isocyanates, toxic, n.o.s. (2,6-Dimethylphenyl isocyanate) ISOCYANATES, TOXIC, N.O.S. (2,6-Dimethylphenyl isocyanate)		
Transport hazard class(es)			
DOT			
Class Label Class Label IMDG, IATA	6.1 Toxic substances. 6.1 6.1 (T1) Toxic substances 6.1		
Class	6.1 Toxic substances.		
Label	6.1		
Packing group DOT, IMDG, IATA	П		
Environmental hazards:	Not applicable.		
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	le Not applicable.		
Transport/Additional information: DOT			
Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN2206, Isocyanates, toxic, n.o.s. (2,6-Dimethylphenyl isocyanate), 6.1, II		
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			
GHS06 GHS08			
Signal word Danger         Hazard statements         H227       Combustible liquid.         H300+H330 Fatal if swallowed or 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.         H336       May cause respiratory irritation.			
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ (Contd. on page 5)			

## Product name: 2,6-Dimethylphenyl isocyanate

(Contd. of page 4)
 P305+P3351+P338 (IF IN EYES: Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 (Contd. of page 4)
 P305
 Store locked up.
 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 Domestic Substance is not listed.
 Components of this product are listed on the Canadian Domestic Substance is not listed.
 Prop 65 - Developmental toxicity, male Substance is not listed.
 Prop 65 - Developmental toxicity, male Substance is not listed.
 Prop 65 - Developmental toxicity, male Substance is not listed.
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 Prop 65 - Developmental toxicity, male Substance is not listed.
 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
 Substance is not listed.
 Annex XVI of the REACH Regulations (requiring Authorisation for use) Substance is not listed.
 Chemical Substance with the information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information only as a supplement to other information is furnished without warranty, and any use of the product not in combination with any other