

SAFETY DATA SHEET

Revision Date 06-Jan-2023

Revision Number 6

1. Identification				
Product Name p-Tolyl isocyanate				
Cat No. :	AC162520000; AC162520050; AC162520250; AC162521000; AC162525000			
CAS No Synonyms	622-58-2 No information available			
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.			

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Flammable liquids	Category 4
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 1
Skin Corrosion/Irritation	Category 1 C
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word Danger

Hazard Statements

Combustible liquid Harmful if swallowed Causes severe skin burns and eye damage May cause an allergic skin reaction Fatal if inhaled May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Wear protective gloves/protective clothing/eye protection/face protection Contaminated work clothing should not be allowed out of the workplace Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep cool Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Benzene, 1-isocyanato-4-methyl-	622-58-2	>95

4. First-aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects Notes to Physician	Causes burns by all exposure routes. May cause allergic skin reaction. Difficulty in breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically
	5 Fire-fighting measures

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	66 °C / 150.8 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Combustible material. Containers may explode when heated. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen cyanide (hydrocyanic acid). Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Flammability	Instability	Physical hazards
1	0	N/A
	Flammability 1	Flammability Instability 1 0

	6. Accidental release measures				
Personal Precautions Environmental Precautions	Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.				
Methods for Containment and Cle Up	an Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition.				
	7. Handling and storage				
Handling	Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Wear personal protective equipment/face protection. Keep away from open flames, hot surfaces and sources of ignition.				
Storage.	Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Keep refrigerated. Store under an inert atmosphere. Incompatible Materials. Acids. Strong oxidizing agents. Strong bases. Alcohols. Amines.				
8. E	Exposure controls / personal protection				
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.				
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.				
Personal Protective Equipment					
Eye/face Protection	Tight sealing safety goggles. Face protection shield.				
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.				
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.				
Recommended Filter type:	Organic gases and vapours filter. Type A. Brown. conforming to EN14387.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				
	9. Physical and chemical properties				

9	. Physical and chemical properties
Physical State	Liquid
Appearance	Light brown
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	70 - 72 °C / 158 - 161.6 °F @ 10 mmHg
Flash Point	66 °C / 150.8 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable

Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No data available No data available No information available No information available 1.056 No information available No data available No information available No information available No information available C8 H7 N O 133.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Stable under normal conditions. Moisture sensitive.				
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.				
Incompatible Materials	Acids, Strong oxidizing agents, Strong bases, Alcohols, Amines				
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen cyanide (hydrocyanic acid), Thermal decomposition can lead to release of irritating gases and vapors				
Hazardous Polymerization	Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.				

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component information					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Benzene, 1-isocyanato-4-methyl-	LD50 = 1600 mg/kg (Rat)	Not listed	Not listed		
Toxicologically Synergistic	No information available				
Products					
Delayed and immediate effects as well as chronic effects from short and long-term exposure					
-		<u> </u>			
Irritation	No information available				

Sensitization

May cause sensitization by skin contact

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzene,	622-58-2	Not listed	Not listed	Not listed	Not listed	Not listed
1-isocyanato-4-methyl-						
Mutagenic Effects		No information ava	ailable			
-						
Reproductive Effect	S	No information available.				
-						
Developmental Effe	cts	No information available.				

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Respiratory system None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability	Persistence is unlikely based on information available.
Bioaccumulation/Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its volatility.

13. Disposal considerations						
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as						
	hazardous waste. Chemical waste generators must also consult local, regional, and					
	national hazardous waste regulations to ensure complete and accurate classification.					

14. Transport information					
DOT					
UN-No	UN3390				
Proper Shipping Name	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S.				
Technical Name	Benzene, 1-isocyanato-4-methyl-				
Hazard Class	6.1				
Subsidiary Hazard Class	8				
Packing Group	I				
TDG	Forbidden				
	FORBIDDEN FOR IATA TRANSPORT				
UN-No	UN3390				
Proper Shipping Name	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S.* FORBIDDEN FOR IATA TRANSPORT				
Hazard Class	6.1				
Subsidiary Hazard Class	8				
Packing Group	1				
IMDG/IMO					
UN-No	UN3390				
Proper Shipping Name	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S.				
Hazard Class	6.1				
Subsidiary Hazard Class	8				
Packing Group					
15. Regulatory information					

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzene, 1-isocyanato-4-methyl-	622-58-2	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzene, 1-isocyanato-4-methyl-	622-58-2	Х	-	210-743-4	-	Х	Х	-	Х	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable	
SARA 311/312 Hazard Categories	See section 2 for more info	ormation
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA - Occupational Safety and Health Administration	Not applicable	
CERCLA	Not applicable	
California Proposition 65	This product does not cont	ain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable	
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N	
U.S. Department of Homeland Security	This product does not cont	ain any DHS chemicals.
Other International Regulations		
Mexico - Grade	Moderate risk, Grade 2	
Authorisation/Restrictions accordin	g to EU REACH	Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzene, 1-isocyanato-4-methyl-	622-58-2	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzene, 1-isocyanato-4-methyl-	622-58-2	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzene, 1-isocyanato-4-methyl-	622-58-2	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

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06-Jan-2023

Revision Date Print Date Revision Summary

06-Jan-2023 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS