

Safety Data Sheet per OSHA HazCom 2012

Neviewed 01/02/11/201-
1 Identification
Product identifier
Product name: p-Tolylhydrazine hydrochloride
Stock number: A14220, L12188 CAS Number:
637-60-5 EC number:
211-295-2 Relevant identified uses of the substance or mixture and uses advised against.
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 (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 H301 Toxic if swallowed.
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation. 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
GHS06
Signal word Danger Hazard statements H301 Toxic if swallowed.
H315 Causes skin irritation
H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.
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. Continue rinsing. 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
Classification system HMIS ratings (scale 0-4)
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH Image: Provide the state of th
REACTIVITY 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: 637-60-5 p-Tolylhydrazine hydrochloride
637-60-5 p-Tolylhydrazine hydrochloride Identification number(s): EC number: 211-295-2
USA

Product name: p-Tolylhydrazine hydrochloride

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4 First-aid measures	
Description of first aid measures 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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
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 chloride (HCI) Advice for firefighters	
Advice for menginers Protective equipment: Wear self-contained respirator.	
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.	
Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up:	
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	
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. Further information about storage conditions:	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
Store in cool, dry conditions in well sealed containers. 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: 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	
Exposure controls Personal protective equipment	
General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.	
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. 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.	
Penetration time of glove material (in minutes) Not determined	
Eye protection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information	
Appearance:	
Form: Powder	(Contd. on page 3)
	USA -

Product name: p-Tolylhydrazine hydrochloride

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Color:	White to pale brown
Odor:	Not determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	an 240 °C (an 464 °E) (dan)
Boiling point/Boiling range:	ca 240 °C (ca 464 °F) (dec) Not determined
Sublimation temperature / start:	Not determined
Flammability (solid, gaseous)	Not determined.
Ignition temperature: Decomposition temperature:	Not determined Not determined
Auto igniting:	Not determined.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	Not determined
Upper: Vapor pressure:	Not determined Not applicable.
Density:	Not determined
Relative density	Not determined.
Vapor density Evaporation rate	Not applicable. Not applicable.
Solubility in / Miscibility with	Not applicable.
Water:	Not determined
Partition coefficient (n-octanol/water Viscosity:). Not determined.
dynamic:	Not applicable.
kinematic: Other information	Not applicable.
	No further relevant information available.
Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions R Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI)	to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents nt information available. nts
Information on toxicological effects Acute toxicity: Toxic if swallowed. The Registry of Toxic Effects of Chemic LD/LC50 values that are relevant for	cal Substances (RTECS) contains acute toxicity data for this substance. classification:
Oral LD50 262 mg/kg (rat)	
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes se	
Sensitization: No sensitizing effects kr	nown
Germ cell mutagenicity: The Registry	of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
Carcinogenicity:	cal Substances (PTECS) contains tumorizania and/or carainagania and/or peoplectic data for this substance
No classification data on carcinogenic	cal Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects know	WN.
Specific target organ system toxicity	• repeated exposure: No effects known.
Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.
Subacute to chronic toxicity: No effe	cts known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
2 Ecological information	
Toxicity	
Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further	ther relevant information available.
Mobility in soil No further relevant info Additional ecological information: General notes:	rmation available.
Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmer	quantities to reach ground water, water course or sewage system. nt
PBT: Not applicable.	
vPvB: Not applicable.	vent information available
Other adverse effects No further relev	
3 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local	or national regulations to ensure proper disposal.
Uncleaned packagings: Pacommondation: Disposal must be r	

Recommendation: Disposal must be made according to official regulations.

(Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

Product name: p-Tolylhydrazine hydrochloride

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Transport information	
UN-Number DOT, IMDG, IATA	UN2811
UN proper shipping name	
DOT IMDG, IATA	Toxic solids, organic, n.o.s. (p-Tolylhydrazine hydrochloride) TOXIC SOLID, ORGANIC, N.O.S. (p-Tolylhydrazine hydrochloride)
Transport hazard class(es)	
DOT	
100C	
Class Label	6.1 Toxic substances. 6.1
Class	6.1 (T2) Toxic substances
Label MDG, IATA	6.1
×	
Class Label	6.1 Toxic substances. 6.1
	0.7
Packing group DOT, IMDG, IATA	
Environmental hazards: Special precautions for user	Not applicable. Warning: Toxic substances
Special precautions for user	Warning: Toxic substances F-A,S-A
Transport in bulk according to Annex II of MARPOL73/78 and the	he IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (p-Tolylhydrazine hydrochloride), 6.1, III
Safety, health and environmental regulations/legislation specifi GHS label elements The product is classified and labeled in accord Hazard pictograms GHS06 Signal word Danger Hazard statements Ha201 Toxic if swallowed	Jance with 29 CFR 1910 (OSHA HCS)
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Product name: p-Tolylhydrazine hydrochloride

WHIMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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USA