

Safety Data Sheet per OSHA HazCom 2012



Product name: 3-Thiopheneacetonitrile

Identification number(s): EC number: 237-433-1

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

Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Hydrogen cyanide (HCN) 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. 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. **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

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 akin. 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 glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.

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9 Physical and chemical propertie	IS STATES AND A STATES	
Information on basic physical and cl General Information Appearance:	hemical properties	
Form: Color:	Liquid Colorless	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 240-242 °C (464-468 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	119 °C (246 °F) Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not determined 1.08 g/cm³ (9.013 lbs/gal)	
Relative density Vapor density	Not determined. Not determined.	
Evaporation rate Solubility in / Miscibility with	Not determined.	
Water: Partition coefficient (n-octanol/water	Not miscible or difficult to mix r): Not determined.	
Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Hydrogen cyanide Nitrogen oxides	ents	
Reproductive toxicity: No effects known Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	skin irritation. erious eye irritation. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. y - repeated exposure: No effects known. y - single exposure: No effects known.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. nt	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal.	

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Unalgonad	nooko wimmoo
Uncleaned	packagings:
Decement	

Uncleaned packagings: Recommendation: Disposal must be made according to off	ficial regulations.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN3276
UN proper shipping name	0110270
DOT IMDG, IATA	Nitriles, liquid, toxic, n.o.s. (3-Thiopheneacetonitrile) NITRILES, LIQUID, TOXIC, N.O.S. (3-Thiopheneacetonitrile)
Transport hazard class(es)	
DOT	
Class	6.1 Toxic substances.
Label Class	6.1 6.1 (T1) Toxic substances
Label	6.1
IMDG, IATA	
*	
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	
	 Net eastischte
Environmental hazards: Special precautions for user	Not applicable. Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/78	Warning: Toxic substances 8 and the IBC Code Not applicable
Transport/Additional information:	
DOT	
Marine Pollutant (DOT): UN "Model Regulation":	No
UN "Model Regulation":	UN3276, Nitriles, liquid, toxic, n.o.s. (3-Thiopheneacetonitrile), 6.1, III
GHS06 Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H315 Causes skin irritation.	
H319 Causes serious eye irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapo P280 Wear protective gloves/protective clothin P305+P351+P338 IF IN EYES: Rinse cautiously with water P304+P340 IF INHALED: Remove person to fresh air	ours/spray. ng/eye protection/face protection. for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. r and keep comfortable for breathing.
P405 Store locked up.	ance with local/regional/national/international regulations.
National regulations This product is not listed in the U.S. Environmental Protection to research and development only. This product must be use	on Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict ed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. nces List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is no Prop 65 - Developmental toxicity, male Substance is not li Information about limitation of use: For use only by techno	ot listed. listed. jically qualified individuals
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 an market and use must be observed. Substance is not listed.	nounce in a manufacture. s he REACH Regulations (EC) No. 1907/2006. Substance is not listed. nd Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the second s
Annex XIV of the REACH Regulations (requiring Authori Chemical safety assessment: A Chemical Safety Assessm	isation for use) Substance is not listed. nent has not been carried out.
information to ensure proper use and protect the health and	t to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not in abination with any other product or process, is the responsibility of the user.
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 Abbreviations and acronyms:

 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

 ICAO: International Civil Aviation Organization

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 IDDG: International Maritime Code for Dangerous Goods

 DOT: US Department of Transport Association

 EINECS: European Inventory of Existing Commercial Chemical Substances

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 HMINS: Hazardous Materials Information System (USA)

 WYHMIS: Workplace Hazardous Materials Information System (Canada)

 L50: Lethal concentration, 50 percent

 L90: Very Persistent and very Bioaccumulative

 VPUE very Persistent and very Bioaccumulative

 ACGIH: American Costerve (USA)

 WTP: National Toxicology Program (USA)

 WAR: International Agency for Research on Cancer

 EPA: Environmental Protection Agency (USA)

USA