

Safety Data Sheet per OSHA HazCom 2012

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H302+H312 Harmful if swallowed or in contact with skin. H31 Toxic in inhaled. H315 Causes skin irritation. H316 Causes serious eve irritation. H325 May cause respiratory irritation. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves / protective clothing. P305+P351+P338 IF INE YESE: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF INE YESE: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF INE YESE: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 Classification D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects D2B - Toxic material causing other toxic effects D2B - Toxic materials Identification System HMINS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2 Pammability = 2 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	Hazard statements	
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PBT: Not applicable.	Other hazards	
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		(Conta. on page 2)

Product name: 2,3,5,6-Tetrafluorothiophenol

(Contd. of page 1)

vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances Chemical Characterization: CAS# Description: 769-40-4 2,3,5,6-Tetrafluorothiophenol Identification number(s): EC number: 212-210-1 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 Inter skill 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 Meet important symptoms and effects, both acute and delayed No further relevant information av 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 CO2, sand, extinguishing powder. Do not use water. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: It this product is involved in a fire, the i Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Sulfur oxides (SOx) Hydrogen sulfide **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 Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources Keep away from ignition sources. 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. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away. Handling 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. Store away from air. Further information about storage conditions: Store under drv inert gas. Store under dry inert gas. This product is air sensitive. 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: Not required. Additional information: No data

Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.

(Contd. on page 3)

Product name: 2,3,5,6-Tetrafluoroth	iophenol	
Impervious doves	othing immediately. and of work. spirator when high concentrations are present. 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	(Contd. of page 2,
9 Physical and chemical properties		
Information on basic physical and ch General Information Appearance: Form: Color:		
Odor: Odor threshold:	Stench Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 152-153 °C (306-307 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	48 °C (118 °F) Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Not determined Not determined 1.53 g/cm³ (12.768 lbs/gal) Not determined. Not determined. Not determined. Not determined.	
Water: Partition coefficient (n-octanol/water) Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing agents Air Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Sulfur oxides (SOx) Hydrogen sulfide	nt information available.	
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful in contact with skin. Harmful if swallowed. Toxic if inhaled. Danger through skin absorption. LD/LC50 values that are relevant for or Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	kin irritation. erious eye irritation. jown.	

Reproductive foxicity: 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: Thiols/mercaptans may be skin, eye and respiratory irritants. Inhalation may cause central nervous system effects. Often the strong penetrating odor acts to minimize inhalation exposure. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Product name: 2,3,5,6-Tetrafluorothiophenol

		(Contd. of page 3)	
12 Ecological information		(conta: of page of	
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 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.	course or sewage system.		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	r disposal.		
14 Transport information			
UN-Number DOT. IMDG. IATA	UN1992		
UN proper shipping name			
DOT I III G IMDG, IATA	Flammable liquids, toxic, n.o.s. (2,3,5,6-Tetrafluorothiophenol) FLAMMABLE LIQUID, TOXIC, N.O.S. (2,3,5,6-Tetrafluorothiophen	iol)	
Transport hazard class(es) DOT		<u></u>	
Class Label	3 Flammable liquids. 3+6.1		
Class Label IMDG, IATA	3 (FT1) Flammable liquids 3+6.1		
Class Label	3 Flammable liquids. 3+6.1		
Packing group DOT, IMDG, IATA	III		
Environmental hazards:	Not applicable.		
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-D		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coo	de Not applicable.		
Transport/Additional information: DOT			
Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN1992, Flammable liquids, toxic, n.o.s. (2,3,5,6-Tetrafluorothioph	enol), 3 (6.1), III	
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 GHS02 GHS06			
Signal word Danger Hazard statements H226 Flammable liquid and vapour. H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves / protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes P310 Immediately call a POISON CENTER/doctor/ National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Summa set of the set o			
This product is not listed in the U.S. Environmental Protection Agency Toxic Si to research and development only. This product must be used by or directly ur product must not be used for commercial purposes or in formulations for comm SARA Section 313 (specific toxic chemical listings) Substance is not listed	der the supervision of a technically qualified individúal as defined by ercial purposes.	TSCA. This (Contd. on page 5)	
		USA	

Product name: 2,3,5,6-Tetrafluorothiophenol

(Contd. of page 4)

USA

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. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

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. Conformance with this Material Safety Data Sheet, or in 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: Réglement 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)
ICAC: International Civil Aviation Organization
ICAC-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le 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 des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Air Transport Association
IATA: International Agereates Senting to the American Chemical Socie