



1 Identification
Product identifier
Product name: 3-Oxetanyl p-toluenesulfonate
Stock number: H57569 CAS Number:
26272-83-3
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(a) identification
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
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
GHS07
Signal word Warning
Hazard statements 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.
P305+P351+P338 IF IN EYES: 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.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D2B - Toxic material causing other toxic effects
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1
FIRE I REACTIVITY 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:
26272-83-3 3-Oxetanyl p-toluenesulfonate
4 First-aid measures
Description of first aid measures After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek îmmediate 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.
(Contd. on page 2)

Product name: 3-Oxetanyl p-toluenesulfonate (Contd. of page 1) 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 Sulfur oxides (SOx) 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: 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 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 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 skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The selection of suitable 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 Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 372 °C (702 °F) Not determined 179 °C (354 °F, Flash point: Flammability (solid, gaseous) Not detèrmined Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

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Page 3/4 Printing date 11/24/2015 Reviewed on 03/12/2013

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Product name: 3-Oxetanyl p-toluen	nesulfonate	
		(Contd. of page 2)
Auto igniting:	Not determined.	· · · -
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure:	Not determined. Not determined Not determined Not applicable.	
Vaþór pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.34 g/cm³ (11.182 lbs/gal) Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water	Not applicable. Not determined sr): Not determined.	
Viscosity: dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions R Conditions to avoid No further relevar Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx)	ant information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	r classification: No data skin irritation. serious eye irritation. mown. ta on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. own. y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relev	rther relevant information available. r relevant information available. ormation available. o the environment without proper governmental permits. e quantities to reach ground water, water course or sewage system. ent	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local		
Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be r	I or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable	
DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	_
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Anne	ex II of MARPOL73/78 and the IBC Code Not applicable.	
		(Contd. on page 4

Safety Data Sheet per OSHA HazCom 2012

Page 4/4 Printing date 11/24/2015 Reviewed on 03/12/2013

Product name: 3-Oxetanyl p-toluenesulfo	onate
	(Contd. of page 3
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Regulatory information Safety, health and environmental regulation GHS label elements The product is classified Hazard pictograms	ns/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
 P405 Store locked up. P501 Dispose of contents/contain National regulations This product is not listed in the U.S. Environme to research and development only. This produc product must not be used for commercial purpor This product is not listed on the Canadian Dom SARA Section 313 (specific toxic chemical I California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity, substance Prop 65 - Developmental toxicity, male Subs Information about limitation of use: For use Other regulations, limitations and prohibitiv Substance of Very High Concern (SVHC) ac The conditions of restrictions according to market and use must be observed. 	tective clothing/eye protection/face protection. sly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Son to fresh air and keep comfortable for breathing. ner in accordance with local/regional/national/international regulations. ental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted ct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This oses or in formulations for commercial purposes. nestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). listings) Substance is not listed. Is not listed. Cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the listing Authorisation for use) Substance is not listed.
information to ensure proper use and protect th	a supplement to other information gathered by them, and should make independent judgement of suitability of this he health and safety of employees. This information is furnished without warranty, and any use of the product not in neet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing D Date of preparation / last revision 11/24/2013 Abbreviations and acronyms:	Department 5 / -