





Product name: 3,3-Dimethyloxetane

(Contd. of page 1)

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 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. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 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. Europe on combine with pair to form an ovelopive mixture.

Fumes can combine with air to form an explosive mixture. Keep ignition sources away.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Store in a cool location. 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: Not required. Additional information: No data

Exposure controls

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. Meintai on organomically conception working any imponent

Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:

Protection of nands: 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

y rhysical and chemical properties		
Information on basic physical and ch General Information Appearance:	iemical properties	
Form:	Liquid	
Color: Odor:	Not determined Not determined	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 81 °C (178 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	-9 °C (16 °F) Not applicable. Not determined Not determined	

(Contd. on page 3)

Product name: 3,3-Dimethyloxetane

Product name: 3,3-Dimethyloxetane		
		(Contd. of page 2)
Auto igniting: Danger of explosion:	Not determined. Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Explosion limits: Explosion limits: Lower: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Not determined Not determined Not determined 0.835 g/cm ³ (6.968 lbs/gal) Not determined. Not determined. Not determined. Not determined	
Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products:	t information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Aspiration hazard: No effects known. Other information (about experimenta Subacute to chronic toxicity: The Registry of Toxic Effects of Chemic Behavioral - general anesthetic. Tumorigenic - equivocal tumorigenic age Tumorigenic - tumors at site of applicati	skin and mucous membranes. fect. own. own. - repeated exposure: No effects known. - repeated exposure: No effects known. - single exposure: No effects known. al toxicology): Tumorigenic effects have been observed on tests with laboratory animals. al Substances (RTECS) reports the following effects in laboratory animals:	
12 Ecological information Toxicity Aquatic toxicity: No further relevant information Persistence and degradability No further Bioaccumulative potential No further relevant information: General notes: Do not allow material to be released to to Do not allow material to be released to to Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevation Not adverse effects No further relevation Not applicable.	her relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. t	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3271	
UN proper shipping name DOT IMDG, IATA	Ethers, n.o.s. (3,3-Dimethyloxetane) ETHERS, N.O.S. (3,3-Dimethyloxetane)	
Transport hazard class(es) DOT		
Class Label Class	3 Flammable liquids. 3 3 (F1) Flammable liquids	
		(Contd. on page 4) USA

duct name: 3,3-Dimethyloxetane	
	(Contd. of page
Label	3
IMDG, IATA	
Class Label	3 Flammable liquids.
Packing group DOT, IMDG, IATA	I
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPO	L/3/18 and the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3271, Ethers, n.o.s. (3,3-Dimethyloxetane), 3, II
Regulatory information	lation ana ific for the autotance or minture
Safety, health and environmental regulations/legis GHS label elements The product is classified and lab	
Hazard pictograms	
GHS02	
Signal word Danger	
Hāzard statements H225 Highly flammable liquid and vapor.	
Precautionary statements	
P210 Keep away from heat/sparks/open P280 Wear protective gloves/protective g	flames/hot surfaces. No smoking. clothing/eye protection/face protection.
P240 Ground/bond container and receivi	ing equipment. liately all contaminated clothing. Rinse skin with water/shower.
P403+P235 Store in a well-ventilated place. Ke	pep cool.
P501 Dispose of contents/container in ac	ccordance with local/regional/national/international regulations.
National regulations This product is not listed in the U.S. Environmental Pr	otection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric
to research and development only. This product must	be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or SARA Section 313 (specific toxic chemical listings	s) Substance is not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Subst	ance is not listed
Prop 65 - Developmental toxicity Substance is not li Prop 65 - Developmental toxicity, female Substance	isted.
Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance i	e is not listed. is not listed
Information about limitation of use . For use only by	r technically qualified individuals
Other regulations, limitations and prohibitive regu Substance of Very High Concern (SVHC) accordin	g 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
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (requiring A Chemical safety assessment: A Chemical Safety As	uthorisation for use) Substance is not listed.
chemical salety assessment. A Chemical salety As	
Other information	terrent te sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-
Employers should use this information only as a suppli- information to ensure proper use and protect the healt	lement to other information gathered by them, and should make independent judgement of suitability of this th and safety of employees. This information is furnished without warranty, and any use of the product not
anformance with this Material Safati Data Sheat ar	
	in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Departm	nent
Department issuing SDS: Global Marketing Departm	nent
Department issuing SDS: Global Marketing Departm	nent
Department issuing SDS: Global Marketing Departm	nent
Department issuing SDS: Global Marketing Departm	nent
Department issuing SDS: Global Marketing Departm	nent
Department issuing SDS: Global Marketing Departm	nent
Department issuing SDS: Global Marketing Departm	nent set and se
Department issuing SDS: Global Marketing Departm	nent contraction of the second s
Department issuing SDS: Global Marketing Departm	