# Safety Data Sheet



Page 1/4 Printing date 08/11/2016 Revision date 08/10/2016

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6 Accidental release measures
reisonal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away. The second s
Envire adequate ventilation: Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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. (Contd. on page 2)

Product name: 2,2-Dimethyl-1,3-dioxan-5-one

See Section 13 for disposal information.

#### 7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. 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: Store in freezer (-20°C). Information about storage in one common storage facility:

Store away from air. Protect from heat. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. This product is air sensitive. Keep container tightly sealed. Protect from humidity and water. **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. Maintain an ergonomically, appropriate working environment

Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Use suitable respiratory protective device in case of insufficient ventilation. Protection of hands:

Impervious gloves 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. Eye protection: Safety glasses Body protection: Protective work clothing.

#### 9 Physical and chemical properties

s rhysical and chemical properties			
Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:	mical properties Liquid Not determined Not determined.		
pH-value:	Not determined.		
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature:	Not determined 40-46 °C (104-115 °F) (14mm) Not determined Not determined Not determined Not determined Not determined.		
	Not determined.		
Upper: Vapor pressure: Density: Relative density	Not determined Not determined Not determined Not determined. Not determined. Not determined. Not determined.		
Water: Partition coefficient (n-octanol/water):	Fully miscible Not determined.		
Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.		

### 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents

(Contd. on page 3)

(Contd. of page 1)

Product name: 2,2-Dimethyl-1,3-dioxan-5-one

(Contd. of page 2)

<b>Conditions to avoid</b> No further relevant information available. Incompatible materials:		(Contd. of page 2)
Air Water/moisture		
Oxidizing agents		
Heat Hazardous decomposition products: Carbon monoxide and carbon dioxid	de	
11 Toxicological information Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin institution or correction: May cause institution.		
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation		
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.		
Carcinogenicity: No classification data on carcinogenic properties of this m Reproductive toxicity: No effects known.		
Specific target organ system toxicity - repeated exposure: No effects kr Specific target organ system toxicity - single exposure: No effects know	10WN. VN.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.		
Additional toxicological information: To the best of our knowledge the ac Carcinogenic categories	ute and chronic toxicity of this substance is not tully known.	
OSHA-Ca (Occupational Safety & Health Administration) Substance is n	not listed.	
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 undiluted product or large quantities to reach ground water, wa	ater course or sewage system.	
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.		
13 Disposal considerations Waste treatment methods		
Recommendation Consult state, local or national regulations to ensure pro Uncleaned packagings:		
Recommendation: Disposal must be made according to official regulations Recommended cleansing agent: Water, if necessary with cleansing agent	ts.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA		
DOT, IMDG, IATA Environmental hazards:	Not applicable	
Environmental nazaros: Special precautions for user	Not applicable. Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC C	••	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":		
15 Regulatory information		i
Safety, health and environmental regulations/legislation specific for th	e substance or mixture	
GHS label elements Not applicable		
Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable		
National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic to product is not listed in the U.S. Environmental Protection Agency Toxic to prove the second by an efficiently the second by an efficiently		the second second
		roduct is restricted / TSCA. This
product must not be used for commercial purposes or in formulations for con This product is not listed on the Canadian Domestic Substances List (DSL)	mmercial purposes. or the Canadian Non-Domestic Substances List (NDSL)	
SARA Section 313 (specific toxic chemical listings) Substance is not list California Proposition 65	led.	
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, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.

(Contd. on page 4) USA

(Contd. of page 3)

#### Product name: 2,2-Dimethyl-1,3-dioxan-5-one

(Contd. of page 3 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. 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 us Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/11/2016 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LD50: Lethal concentration, 50 percent UD50: Eurorean and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA