

Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1)

Product name: (R)-1,4-Diazabicyclo[4.3.0]nonane

Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eve damage

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 Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) 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). Use neutralizing agent. Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Revention 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: 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. 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

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: Tightly sealed goggles Full face protection

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physica General Information Appearance:		
'Form: Color: Odor: Odor threshold:	Oil Colorless Not determined Not determined.	
pH-value:	Not determined.	

(Contd. on page 3)

Product name: (R)-1 4-Diazabicyclo[4,3 0]nonane

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nonane)		$\sum_{i=1}^{n} \frac{1}{2} $			
nonane)		Corrosive liquid, basic, organic, n.o.s. ((K)-1,4-Diazabicycio(4.3.0)nonane) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. ((R)-1,4-Diazabicyclo(4.3.0)			
(Contd. on		nonane)			
		(Contd. on pag US			

	Reviewed on 02/02/2011	
Product name: (R)-1,4-Diazabicyclo[4.3.0]nonane		
	(Contd. of page 3)	
Transport hazard class(es)		
DOT		
Class	8 Corrosive substances.	
Label	8	
Class Label	8 (C7) Corrosive substances 8	
ΪΜ̈́ϽĞ, ΙΑΤΑ		
Class Label Decking group	8 Corrosive substances. 8	
Packing group DOT, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Corrosive substances	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	ode Not applicable.	
Transport/Additional information:		
DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN3267, Corrosive liquid, basic, organic, n.o.s. ((R)-1,4-Diazabicyclo[4.3.0] nonane), 8, 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 GHS labeled elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS labeled elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS labeled elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements H314 Causes severe skin Durns and eye damage. Precautionary statements P260		
 Employers should use this information only as a supplement to other information to ensure proper use and protect the health and safety of employed conformance with this Material Safety Data Sheet, or in combination with any Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RiD: Reglement international concernant le transport des marchandises dangereuses par chemin de fe IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: International Martitine Code for Dangerous Goods DOT: US Department of Transport des marchandises dangereuses par chemin de fe IATA-DGR: Congeneration by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreeme IDF): US Department of Transportasociation IATA: International Air Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Sob percent LDSO: Lethal dose, 50 percent LDSO: Lethal dose, 50 percent VBX: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Agericy for Research on Cancer EPA: Environmental Protection Agency (USA) 	other product or process, is the responsibility of the user.	