



Product name: 1-Decylphosphonic acid

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(Contd. of page 1) 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 Phosphorus oxides 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: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. 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 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. 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. **Pretation time of glove material (in minutes)** Not determined **Eye protection:** Tightly sealed gogales Tightly sealed goggles Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties **General Information** Appearance: Form: Powder Color: White Not determined Odor: Odor threshold: Not determined pH-value: Not applicable. Change in condition 100-101 °C (212-214 °F) Melting point/Melting range: Boiling point/Boiling range:

Not determined

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Sublimation temperature / start:	Not determined
Flash point:	Not applicable
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable.
Density: Relative density	Not determined Not determined.
Vapor density	Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water:	Not determined
Partition coefficient (n-octanol/water Viscosity:	r): Not determined.
dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	No further relevant information available.
Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions N Conditions to avoid No further releva Incompatible materials: Oxidizing ag Hazardous decomposition products Carbon monoxide and carbon dioxide Phosphorus oxides (e.g. P2O5)	s to be avoided: Decomposition will not occur if used and stored according to specifications. Io dangerous reactions known nt information available. ents
LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes s Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects kn Carcinogenicity: No classification dat Reproductive toxicity: No effects known. Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe Subacute to chronic toxicity: Organic phosphorus compounds exhib exhibiting substantial water reactivity compounds are cholinesterase inbibito	a a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. classification : No data severe skin burns. erious eye damage. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. y - repeated exposure: No effects known. y - single exposure: No effects known.
can be highly paralytic.	
2 Ecological information	: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
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Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes:	nformation available. rther relevant information available. r relevant information available. ormation available.
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Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur 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 assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	nformation available. r relevant information available. r relevant information available. ormation available. • the environment without proper governmental permits. • quantities to reach ground water, water course or sewage system. • nt
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	Reviewed on 05/29/2
oduct name: 1-Decylphosphonic acid	
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Transport hazard class(es)	
DOT	
(E)	
Class	8 Corrosive substances.
Label	8
Class Label	8 (C4) Corrosive substances 8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
Packing group DOT, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Corrosive substances Acids
Transport in bulk according to Annex II of MARPOL73/78	8 and the IBC Code Not applicable.
Transport/Additional information: DOT	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3261, Corrosive solid, acidic, organic, n.o.s. (1-Decylphosphonic acid), 8, III
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled in Hazard pictograms GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapou P303+P361+P353 If on skin (or hair): Take off immediately a P305+P351+P338 IF IN EYES: Rinse cautiously with water P304 FP351 IF Signal For Signa	
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