

Safety Data Sheet per OSHA HazCom 2012



Product name: trans-1,2-Bis(diphenylphosphino)ethylene

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		(Contd. of page 1)	
Seek immediate medical advice. After eve contact Rinse opened eve for	several minutes under running water. Then consult a doctor.		
After swallowing Seek medical treatment.			
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.			
Indication of any immediate medical a	ttention and special treatment needed No further relevant information available.		
5 Fire-fighting measures			
Extinguishing media			
Suitable extinguishing agents Carbon	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 equip	pment 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 Prevention of secondary hazards: No.	t and cleaning up: Ensure adequate ventilation.		
Reference to other sections	Prevention of secondary hazards: No special measures required. Reference to other sections		
See Section 7 for information on safe har See Section 8 for information on persona See Section 13 for disposal information.	naing al protection equipment.		
See Section 13 for disposal information.			
7 Handling and storage			
Handling			
Precautions for safe handling Handle under dry protective gas.			
Keep container tightly sealed. Store in cool, dry place in tightly closed c	penteinero.		
	explosions and fires: No information known.		
Conditions for safe storage, including Storage	any incompatibilities		
Requirements to be met by storeroom	s and receptacles: No special requirements.		
Information about storage in one common storage facility: Store away from oxidizing agents.			
Store away from air. Further information about storage conditions:			
Store under dry inert gas.			
This product is air sensitive. Keep container tightly sealed.			
Store in cool, dry conditions in well seale Specific end use(s) No further relevant i	d containers.		
8 Exposure controls/personal prote			
Additional information about design o Properly operating chemical fume hood o	f technical systems: Jesigned 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 meas			
The usual precautionary measures for handling chemicals should be followed.			
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.			
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 w	orking environment.		
Breathing equipment: Úse suitable respirator when high concentrations are present. Protection of hands:			
Impervious aloves			
Check protective gloves prior to each use 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			
Form:	Crystalline		
Color: Odor:	White Not determined		
Odor threshold:	Not determined.		
pH-value: Change in condition	Not applicable.		
Melting point/Melting range:	126-130 °C (259-266 °F)		
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	Reviewed on 08/03/2009		
Product name: trans-1,2-Bis(dipher	nylphosphino)ethylene		
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Boiling point/Boiling range: Sublimation temperature / start:	Not determined		
	Not determined		
Flash point: Flammability (solid, gaseous)	Not applicable Not determined.		
Ignition temperature: Decomposition temperature:	Not determined 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: Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/water	Insoluble): Not determined.		
Viscosity:			
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
0 Stability and reactivity			
Reactivity No information known.	amondod storago conditions		
Thermal decomposition / conditions	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions N Conditions to avoid No further relevan	o dangerous reactions known		
Incompatible materials:			
Oxidizing agents Air			
Hazardous decomposition products:			
Carbon monoxide and carbon dioxide Phosphorus oxides (e.g. P205)			
1 11030110103 0x1003 (0.9.1 200)			
1 Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data			
Skin irritation or corrosion: Causes skin irritation.			
Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known.			
Germ cell mutagenicity: No effects known.			
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.			
Specific target organ system toxicity - repeated exposure: No effects known.			
Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.			
Subacute to chronic toxicity: No effects known			
Subacute to chronic toxicity:			
Organic phosphorus compounds exhibit a wide range of toxicity. Most are skin and eye irritants with the more volatile also being respiratory irritants. Those exhibiting substantial water reactivity will have stronger irritating properties and may be corrosive enough to cause severe burns. Some organic phosphorus			
compounds are cholinesterase inhibitors. Symptoms associated with these include muscle twitching, convulsions, flaccid paralysis, coma, respiratory failure. They			
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
2 Ecological information			
Toxicity Aquatic toxicity: No further relevant in	formation available		
Persistence and degradability No fun	ther relevant information available.		
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.		
Additional ecological information:			
General notes:	the environment without proper governmental permits.		
Avoid transfer into the environment.			
Results of PBT and vPvB assessmer	nt		
PBT: Not applicable. vPvB: Not applicable.			
Other adverse effects No further relev	rant information available.		
3 Disposal considerations			
Waste treatment methods			
Recommendation Consult state, local	or national regulations to ensure proper disposal.		
Uncleaned packagings: Recommendation: Disposal must be r	nade according to official regulations.		
4 Transport information Not a hazardous material for transporta	tion		
UN-Number	uon.		
DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA			
DOT, IMDG, IATA	None (Cartid an page 4)		
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Product name: trans-1,2-Bis(diphenylphosphino)ethylene		
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Transport hazard class(es)	· · · · · · · · · · · · · · · · · · ·	
DOT, ADR, IMDG, IATA	Maria	
Class Booking group	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IE		
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
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		
GHS07 Signal word Warning Hazard statements H310 Causes Skin Initiation. H315 Causes Skin Initiation Skin Skin Skin Skin Skin Skin Skin Ski		
	USA	