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Methods and meterial for containment and cleaning up: Ensure adequate venilation. Proceedings of the second of the second measures required. Proceedings of the second of the second measures required. Proceedings of the second	Ensure adequate ventilation				
Reference to other sections         See Section 15 for disposal information.         See Section 15 for disposal information.         7 Handling and storage         Handling for set handling         Response Control of the information.         Store in co.d vm place in highly obset containers.         Enformation about protection ageinstate explosions and fires: No information known.         Conditions for safe storage, including any incompatibilities         Storage         Requirements to be met by storerooms and receptacles: No spacial requirements.         Purther information about storage conditions:         Specific end use(s) No three relevant information available.         Specific end use(s) No three relevant information available.         8 Exposure controls/personal protection         Additional information about design of technical systems:         Properly operating chemical fune hood designed tor hazardous chemicals and having an average face velocity of at least 100 feet per minute.         Control parameters         Control parameters <td>Methods and material for containment</td> <td>nt and cleaning up: Ensure adequate ventilation.</td> <td></td>	Methods and material for containment	nt and cleaning up: Ensure adequate ventilation.			
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Eye protection: Safety glasses         Body protection: Protective work clothing.         9 Physical and chemical properties         Information on basic physical and chemical properties         General Information         Appearance:         Form:       Powder         Color:       White         Odor:       Not determined         Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition       Not determined         Melting point/Boiling range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not determined.         Mot determined.       N	Check protective gloves prior to each u	se for their proper condition.			
Body protection: Protective work clothing.         9 Physical and chemical properties         Information on basic physical and chemical properties         General Information         Appearance:         Form:       Powder         Color:       White         Odor:       Not determined         Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition       Mot determined         Melting point/Melting range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not determined.         Ignition temperature:       Not determined.         Ignition temperature:       Not determined.         Mot determined.       Not determined.         Flash point:       Not determined.         Ignition temperature:       Not determined.         Mot determined.       Not determined.         Decomposition temperature:       Not determined.         Mot determined.       Not determined.         Mot determined.       Not determined.         Mot determined.       Not determined.         Mot determined.       Not determ	Eye protection: Safety glasses				
Information on basic physical and chemical properties         General Information         Appearance:         Form:       Powder         Color:       White         Odor:       Not determined         Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition       Melting point/Melting range:         Melting point/Melting range:       265-268 °C (509-514 °F)         Boiling point/Melting range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined.         Decomposition temperature:       Not determined.         Auto igniting:       Not determined.	Body protection: Protective work cloth	ing.			
General Information       Appearance:         Appearance:       Powder         Color:       White         Odor:       Not determined         Odor:       Not determined.         Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition       Melting point/Melting range:         Melting point/Boiling range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined.         Decomposition temperature:       Not determined.         Auto igniting:       Not determined.					
Appearance:       Form:       Powder         Form:       White         Odor:       Not determined         Odor:       Not determined.         Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition          Meting point/Melting range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined.	General Information	nemical properties			
Color:       White         Odor:       Not determined         Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition          Melting point/Melting range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined.	Appearance:	Powder			
Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition       Example         Melting point/Melting range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined.	Color:	White			
Change in condition       Melting point/Melting range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined         Jgnition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined					
Melfing point/Melting range:       265-268 °C (509-514 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined		Not applicable.			
Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined         Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined		265-268 °C (509-514 °F)			
Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined.	Boiling point/Boiling range:	Not determined			
Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined.					
Decomposition temperature:         Not determined           Auto igniting:         Not determined.	Flammability (solid, gaseous)	Not determined.			
	Decomposition temperature:	Not determined			
(Contd.or	Auto igniting:	INOT DETERMINED.	(Contd. on page 3)		
	L		USA -		

## Product name: Tri(1-naphthyl)phosphine

Product name: Tri(1-naphtnyi)phosp				
Demony of explosions		ntd. of page 2)		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower:	Not determined Not determined			
Upper: Vapor pressure:	Not applicable.			
Density:	Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water:	Not determined			
Partition coefficient (n-octanol/water)	: Not determined.			
Viscosity: dynamic:	Not applicable.			
kinematic: Other information	Not applicable. 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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Phosphorus oxides (e.g. P205)				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: No effects known. LD/LC50 values that are relevant for o	slassification: No data			
Skin irritation or corrosion: Causes sl	kin irritation.			
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	own.			
Germ cell mutadenicity: No effects kno	own.			
Reproductive toxicity: No classification data Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Specific target organ system toxicity	- repeated exposure: No effects known.			
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.			
Subacute to chronic toxicity:		al va al		
Inorganic phosphorus compounds may cause irritation and hemorrhages in the stomach as well as liver and kidney damage. Bone structure may be attacked, especially the jaw and teeth.				
Subacute to chronic toxicity: No effects known.				
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant information available.				
Persistence and degradability No furth	er 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.				
Mobility in soil No further relevant infor Additional ecological information:				
General notes: T Do not allow material to be released to the environment without proper governmental permits.				
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.				
Avoid transfer into the environment. Results of PBT and vPvB assessment				
PBT: Not applicable.				
Other adverse effects No further releva	ant information available.			
13 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:				
Recommendation: Disposal must be made according to official regulations.				
<b>14 Transport information</b> Not a hazardous material for transportat	ion.			
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA				
Transport hazard class(es)	None			
DOT, ADR, IMDG, IATA				
Class Packing group	None			
Packing group DOT, IMDG, IATA	None			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
(Contd. on page 4) USA				

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USA -

Product name: Tri(1-naphthyl)phosphine	
	(Contd. of page 3)
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	de Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Ballutent (DOT):	No
Marine Pollutant (DOT):	No
15 Regulatory information	
Safety, health and environmental regulations/legislation specific for the GHS label elements The product is classified and labeled in accordance with Hazard pictograms	substance or mixture 29 CFR 1910 (OSHA HCS)
GHS07	
to research and development only. This product must be used by or directly up product must not be used for commercial purposes or in formulations for comm SARA Section 313 (specific toxic chemical listings) Substance is not listed California Proposition 65 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, male Substance is not listed. Information about limitation of use: For use only by technically qualified inco Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula	ional/national/international regulations. Substances Control Act Chemical Substance Inventory. Use of this product is restricted nder the supervision of a technically qualified individual as defined by TSCA. This mercial purposes. d. dividuals. <b>ations (EC) No. 1907/2006.</b> Substance is not listed. <b>the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</b> Substance is not listed.
16 Other information Employers should use this information only as a supplement to other informati information to ensure proper use and protect the health and safety of employe conformance with this Material Safety Data Sheet, or in combination with any	ion gathered by them, and should make independent judgement of suitability of this ees. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMMS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent UD50: Lethal dose, 50 percent VP/B: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA)	

OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)