

### Safety Data Sheet per OSHA HazCom 2012



Product name: Triisopropyl orthoformate

# (Contd. of page 1) 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye 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 attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Exunguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. 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 Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. Extinguishing media 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 8 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 And the second s 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. Store away from water/moisture. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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: Not required. Additional information: No data Exposure controls 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. Eye protection: Safety glasses

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Product name: Triisopropyl orthoformate

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Body protection: Protective work cloth	ing.	(Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and chemical properties General Information Appearance:		
Form: Color:	Liquid Colorless	
Odor:	Pungent	
Odor threshold:	Not determined.	
pH-value: Change in condition	Not determined.	
Melling point/Melling range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 64-65 °C (147-149 °F) (18mm Hg) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	42 °C (108 °F) Not determined. 350 °C (662 °F) Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Lower: Upper:	Not determined Not determined	
Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F):	1.1 hPa (1 mm Ha)	
Relative density	0.854 g/cm³ (7.127 lbs/gal) Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with Water:	Hydrolyzes	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not determined.	
kinematic: Other information	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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/L C50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes skin viritation. 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 - single 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. 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 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 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.         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 proper disposal.

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## Safety Data Sheet per OSHA HazCom 2012

#### Product name: Triisopropyl orthoformate

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I Transport Information       UN3272         UM proper shipping name       Edites, o. e. 6. (Tricepropy) otholomate)         EXTERNATION CONTRICT       ESTERNATION CONTRICT         I Transport hazard class(ex)       ESTERNATION CONTRICT         Extended       3 (F1) Flammable liquids.         Status       3 (F1) Flammable liquids.         Extended       3 (F1) Flammable liquids.         Transport in bulk seconding to Annex II of MARPOLT378 and the IBC Code Not applicable.       TransportAdditional Information:         DOT       No       Marrine Follutant (DOT):       No         UN Model Regulation*:       UN3272 Esters. no.s. (Tripopropyl ortholomate). 3. (II         Status estermed TransportAdditional Information:       UN3272 Esters. no.s. (Tripopropyl ortholomate). 3. (II </th <th>aned packagings: nmendation: Disposal must be made according to official regula</th> <th>(Contd. of page lations.</th>	aned packagings: nmendation: Disposal must be made according to official regula	(Contd. of page lations.
DOT, MUG, LATA       UN3272         With proper shipping name       Ester, n. o. s. (Triliopropyl orthoformate)         Fransport hazard class(es)       Filammable liquids.         OF       3         Special processing to Annex 1 of MARPOLT37E and the IEC Code Not applicable.         Transport In buik according to Annex 1 of MARPOLT37E and the IEC Code Not applicable.         OF       Model Regulation*:         OF       UN Model Regulation*:         OF       UN Model Regulation*:         OF       UN Model Regulation*:         OF <t< th=""><th></th><th></th></t<>		
Wy proper shipping name bMDG, IATA       Esters, n.o.s. (Trillsopropy/orthodormate)) ESTERS, N.C.S. (Trillsopropy/orthodormate)         Classing       3         Special proceutions for user       Not applicable.         TransportAdditional information:       No         Developments The product is classified and alcocid an accordance with 29 CFR 1910 (ClSHA HCS)         Classing       Classing         Classing       Classing         Classing       Classing         Classing		I IN13979
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Transport hazard class(es) <ul> <li>Flammable liquids.</li> <li>Generation</li> <li>Generation</li></ul>		Esters, n.o.s. (Triisopropyl orthoformate)
DOT       Image: State of the		LOTENO, N.O.O. (Interpropyroutionation)
Label Dissipation       3/3 (F1) Flammable liquids         INDE. (ATA       3/3 (F1) Flammable liquids         INDE. (ATA       3/3 (F1) Flammable liquids         INDE. (ATA       11         Existing       3/3 (F1) Flammable liquids         Special precautions for user       11         Dott, Hold, ATA       11         Special precautions for user       Warning: Flammable liquids         Transport In build according to Annex II of MARPOLT3/T8 and the IBC Code Nol applicable.       Transport Inbuilding         Transport In build according to Annex II of MARPOLT3/T8 and the IBC Code Nol applicable.       Transport Inbuilding         Of Transport Additional Information:       DOT       No         Marine Pollutant (DOT):       No       No         VM Model Regulation?       UN3272, Esters, n.o.s. (Triksporpty orthoformate), 3, III         Regulatory Information       Safey, health and environmental regulations/legislation specific for the substance or mixture (STS label etempents)         Regulatory Information       Safey, health and environmental regulations/legislation specific program         Regulatory Information       Safey, health and environmental regulations/legislation specific program         Regulatory Information       Safey, health and environmental regulations/legislation specific program         Safey A seating and environmental regulation/legislation specintregislatio		
Label		
Label		3 Flammable liquids.
Label       3         Class       3         Class       3         Dori, MGO, IATA       III         Environmental hazards:       Not applicable.         Special precuditors for user       Warning: Flammable liquids.         Transport/Additional information:       Dori, MGO, IATA         Dori, MGO, IATA       III         Environmental hazards:       Not applicable.         Transport/Additional information:       Dori         Dori       MGO (MAC)         Marine Pollutant (DOT):       No         UN 'Model Regulatory information       Status (Mac)         Status (Mac)       Dori Model Regulatori:         UN 'Model Regulatory information       Status (Mac)         Status (Mac)       Dori Model Regulatori:         UN 'Model Regulatory information       Status (Mac)         Status (Mac)       Dori Model Regulatori:         View of prevention       Status (Mac)         Status (Mac)       Dori Model Regulatori:         View of prevention       Status (Mac)         Status (Mac)       Dori Model Regulatori:         Status (Mac)       Dori Model Regulatori:         Status (Mac)       Dori Model Regulatori:         Status (Mac)       Dori Model Regulatori: <th></th> <th>3</th>		3
Yes       3         Packing group       H         Bord, MBC, IATA       H         Dort, MBC, IATA       H         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Flammable liquids.         Transport Multi According to Annex II of MARPOLT3/T8 and the IBC Code Not applicable.       Transport Multi According to Annex II of MARPOLT3/T8 and the IBC Code Not applicable.         Transport Multi According to Annex II of MARPOLT3/T8 and the IBC Code Not applicable.       Transport Multi According to Annex II of MARPOLT3/T8 and the IBC Code Not applicable.         OT       Main Pollutant (DOT):       No         UN Model Regulation*:       UN3272, Esters, n.o.s. (Triisopropy) orthoformately, 3, III         Stepsi product is classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         Hazard Statements       The product is classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         High Politicable       The product is classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         High Politicable       The product is classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         High Politicable       The product is classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         High Politicable       The product is classified in the US Service contains and activity contains and activity contains and acontains and transpolity contains and aconty to the product is cl	18 <b>7</b> 8	3
Packing group DOT, IMOS, Iki TA         III           Environmental hazards:         Not applicable.           Special precautions for user         Warning: Flammable liquids.           Transport In bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.         Transport/Additional information:           Transport/Additional information:         No           Marine Politiant (DOT):         No           UN "Model Regulation":         UN3272, Esters, n.o.s. (Triisopropyl orthoformate), 3, III           Steps, health and environmental regulations/legislation specific for the substance or mixture starad pictograms         Steps, health and environmental regulations/legislation specific for the substance or mixture starad pictograms           Www         Without and the substance or mixture starad pictograms         Steps, health and environmental regulations/legislation specific for the substance or mixture starad pictograms           Www         Www         Www         Www         Steps, health and environmental regulations/legislation specific for the substance or mixture starad pictograms           Www         Www         Www         Www         Steps, health and environmental regulations.           F010         Keep awy tom healtsparks/open flames/hot surfaces. No smoking.         F010         Keep awy tom healtsparks/open flames/hot surfaces. No smoking.           F210         Keep awy tom healtsparks/open flames/hot surfaces. No smoking.         F0200	ΙΑΙΑ	
Pecking group DOT, IMOS, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Flammable liquids.         Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable.       Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable.         Transport Additional information:       No         Marine Pollutant (DOT):       No         UN "Model Regulation":       UN3272, Esters, n.o.s. (Triisopropyl orthoformate), 3, III         5 Regulatory information       State, health and environmental regulations/legislation specific for the substance or mixture state of policy of the information         State, health and environmental regulations/legislation specific for the substance or mixture state of policy of the information         State, health and environmental regulations/legislation specific for the substance or mixture state of policy of the information         State, health and environmental regulations/legislation specific for the substance or mixture state of the information         State, health and environmental regulations/legislation specific for the substance or mixture state of the information         State, health and environmental regulations/legislation specific for the substance or mixture state of the information         State, health and environmental regulations/legislation specific for the substance or mixture state of the information         State, beact of the information       State information		
Environmental hazards:       Not applicable.         Special processions for user       Warning: Flammable liquids         Transport in bulk according to Annex II of MARPOL73/8 and the IBC Code Not applicable.         Transport/Additional information:       DOT         Marine Pollutant (DOT):       No         UN * Model Regulation*:       UN3272, Esters, n.o.s. (Trilsopropyl orthoformate), 3, III         5 Regulatory information       Step (Jacobian Step)         Safety, health and environmental regulations/legislation specific for the substance or mixture GMS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Filts Data leadements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Figure 20 CHS02         Figure 20 CHS03         Figure 20 CHS03         Figure 20 CHS03         Signal word Werning         H226 Flammable liquid and vapour.         H315 Causes softing dust/mergas/mist/vapours/gray.         P201       Keep away from heat/sparks/open flames/hot surfaces. No smoking.         P201       Keep away from heat/sparks/open flames/hot surfaces. No smoking.         P201       Keep away from heat/sparks/open flames/hot surfaces. No smoking.         P201       Keep away from heat/sparks/open flames/hot surfaces. No smoking.         P201       Keep away from heat/sparks/open flames/hot		3 Flammable liquids. 3
Environmental hazards:       Not applicable.         Special processions for user       Warning: Flammable liquids         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Transport/Additional information:         OT         Marine Pollutant (DOT):       No         UN 'Model Regulation':       UN3272, Esters, n.o.s. (Trilsopropyl orthoformate), 3, III         Setty, health and environmental regulations/legislation specific for the substance or mixture GMS label elements 'The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Farad plotograms       Model applicable.         Signal word Warning       Product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hasard plotograms       Model applicable.         Signal word Warning       Product is classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         Hasard plotograms       Model applicable.         Signal word Warning       Product is classified and subplot and vapour.         H316 Causes soft Intation.       Processitional regulations.         Processitional regulations.       Product regulations.         Product Marting dust/medge/mist/vapours/spray.       Product regulations.         Product Marting dust/medge/mist/vapours/spray.       Product regulations.         Product Masting dust/medge/mist/vapours/spray.       Pr	ig group MDG, IATA	
Transport in bulk according to Annex II of MARPOL7378 and the IBC Code Not applicable.         Transport Additional Information:         Dom         Marmochiliant (DOT):       No         Marmochiliant (DOT):       No         UN "Model Regulation":       UN3272, Esters, n.o.s. (Triisopropyl orthoformate), 3, III         Steps://www.commental regulations/legislation specific for the substance or mixture         GHS label elements The provide is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Haard pictograms         General pictograms         General pictograms         General pictograms         Figure 10 (Section Pictograms)         Marco pictograms         General pictograms         General pictograms         General pictograms         Marco pictograms         Figure 10 (Section Pictograms)         Marco pictograms	onmental hazards:	
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DOT       No         Warne Polutant (DOT):       UN3272, Esters, n.o.s. (Triisopropyl orthoformate), 3, III         UN "Model Regulation":       UN3272, Esters, n.o.s. (Triisopropyl orthoformate), 3, III         Stepulatory information       Stepulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture ght/s label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) (Marco Variante)         Vex       Vex         Signal word Warning Hazard pictograms       Vex         Vex       Vex         Signal word Warning Hazard statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Proceeding Hazard Statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Proceeding Hazard Statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Prod       Statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Prod       Statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Prod       Statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Prod       Statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Prod       Statements       Keep Hayarom heal/sparks/open flames/hot surfaces. No smoking.         Pr		IBC Code Not applicable.
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5 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) Hatard pictograms <i>www www www</i>		
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         VOID       Void         GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms         VOID       Void         Strand word       Void         Strand word       Void         Strand word       Void         Strand word       Void         H226 Flamments       Void breathing dust/fume(gas/mist/vapours/spray.         P303+P331 H238 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P405       Store locked up.         Renord regulate of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         SARA Section 313 (specific toxic chemical listings) Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - De	odel Regulation":	UN3272, Esters, n.o.s. (Triisopropyl orthoformate), 3, III
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. 6 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the produc conformance with this Material Safety Data Sheet, or in combination with any 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: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: Int	I word Warning d statements Flammable liquid and vapour. Causes skin irritation. May cause respiratory irritation. P351+P338 IF IN EYES: Rinse cautiously with water for severa. Store locked up. Dispose of contents/container in accordance with loc al regulations noonents of this product are listed in the U.S. Environmental Pro Section 313 (specific toxic chemical listings) Substance is not ria Proposition 65 5 - Chemicals known to cause cancer Substance is not listed. 5 - Developmental toxicity, female Substance is not listed. 5 - Develo	infated cioning. Rinse skin with watersnower. al minutes. Remove contact lenses, if present and easy to do. Continue rinsing. cocal/regional/national/international regulations. otection Agency Toxic Substances Control Act Chemical substance Inventory. not listed. d.
(Contu	XIV of the REACH Regulations (requiring Authorisation for ical safety assessment: A Chemical Safety Assessment has no <b>information</b> yers should use this information only as a supplement to other in ation to ensure proper use and protect the health and safety of e mance with this Material Safety Data Sheet, or in combination w tment issuing SDS: Global Marketing Department of preparation / last revision 11/23/2015 / -	not been carried out. Information gathered by them, and should make independent judgement of suitability of this employees. This information is furnished without warranty, and any use of the product not in with any other product or process, is the responsibility of the user. Hemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ATA)
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USA

#### Product name: Triisopropyl orthoformate

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concernitation, 50 percent vPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTFP: National Toxicology Program (USA) INTFP: National Toxicology Program (USA) INTFP: National Toxicology for Research on Cancer EPA: Environmental Protection Agency (USA)
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