## TRIETHYLALUMINUM

## CAUTIONARY RESPONSE INFORMATION 4.1 Flash Point: Common Synonyms Liauid Colorless Ignites spontaneousl temperatures Aluminum triethy 4.2 Flammable Limits in ATE TEA IGNITES WHEN EXPOSED TO AIR. Flammable gas is produced on 4.3 Fire Extinguishing A powders (sand, limes contact with water 4.4 Fire Extinguishing A Used: Water, foam, Evacuate. Keep people away Shut off ignition sources and call fire department. extinguishing agents Wear rubber overclothing (including gloves). Notify local health and pollution control agencies Protect water intakes. Special Hazards of C Products: Intense s 4.5 metal-fume fever. 4.6 Behavior in Fire: De Fire IGNITES WHEN EXPOSED TO AIR IGNITES WHEN EXPOSED TO AIR. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles and self-contained breathing apparatus. Extinguish with dry graphite, soda ash, or other inert powder. DO NOT USE WATER, FOAM, CARBON DIOXIDE, DRY CHEMICALS OR VAPORIZING LIQUIDS ON FIRE. aluminum oxide form water applied to adia violent reaction prod flammable gases. 4.7 Auto Ignition Temper (self-ignites at ambien 4.8 Electrical Hazards: No. DO NOT USE WATER ON ADJACENT FIRES 4.9 Burning Rate: Not pe Call for medical aid Exposure 4.10 Adiabatic Flame Ter not available LIQUID Will burn skin and eves. Will burn skin and eyes. Hamful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water 4.11 Stoichometric Air to (calc.) 4.12 Flame Temperature available 4.13 Combustion Molar R Product): 11.0 (calc DO NOT INDUCE VOMITING. 4.14 Minimum Oxygen Co Combustion (MOCO Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes. Water 5. CHEMICAL R Pollution 5.1 Reactivity with Wate form flammable etha 5.2 Reactivity with Comn significant reaction 1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge 2. CHEMICAL DESIGNATIONS 5.3 Stability During Tran CHEMICAL DESIGNATIONS CG Compatibility Group: Not listed. Formula: (C:Hs)Al IMO/UN Designation: 4.2/1102 DOT ID No: Not listed. CAS Registry No.: Currently not available NAERG Guide No:: Not listed T Standard Industrial Trade Classification: 51550 5.4 Neutralizing Agents to Caustics: Not pertin 5.5 Polymerization: Not p 5.6 Inhibitor of Polymeriz 6. WATER PO 6.1 Aquatic Toxicity: Not pertinent 3. HEALTH HAZARDS 6.2 Waterfowl Toxicity: 3.1 Personal Protective Equipment: Full protective clothing, preferably of aluminized glass cloth; goggles; face shield; gloves. In case of fire, all-purpose canister or self-contained breathing apparatus 6.3 Biological Oxygen D tace shield; gloves. In case of tire, all-purpose canister or self-contained breathing apparatus. Symptoms Following Exposure: Exposure to smoke from fire causes metal-furme fever (flu-flike symptoms). Since liquid ignites spontaneously, contact with eyes or skin causes severe burns. Treatment of Exposure: INHALATION: only fumes from fire need be considered; metal-furme fever is not critical, lasting less than 36 hrs. EYES: flush gently with copious quantities of water for 15 min. with lids held open; treat burns if fire occurred; get medical attention. SKIN: wash with water; treat burns caused by fire; get medical attention. pertinent 6.4 Food Chain Concent 6.5 GESAMP Hazard Pro 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Not pertinent (ignites instantly in air, reacts vigorously with water) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Not pertinent 3.11 Liquid or Solid Characteristics: Severe skin irritant. Causes second-and third-degree burns on short contact and is very injurious to the eyes. 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed

4. FIRE HAZARDS	7. SHIPPING INFORMATION
Point: es spontaneously in air at all peratures	7.1 Grades of Purity: 92+%. 20% or less by weight in benzene, hexane, or heptane. Solutions are not pyrophoric.
mable Limits in Air: Not pertinent	7.2 Storage Temperature: Ambient
Extinguishing Agents: Inert ders (sand, limestone), dry chemical	7.3 Inert Atmosphere: Inerted; dry nitrogen at 5 psig
Extinguishing Agents Not to Be	7.4 Venting: Safety relief, with rupture disc
d: Water, foam, halogenated nguishing agents.	7.5 IMO Pollution Category: Currently not available
ial Hazards of Combustion ducts: Intense smoke may cause al-fume fever.	<ul><li>7.6 Ship Type: Currently not available</li><li>7.7 Barge Hull Type: Currently not available</li></ul>
vior in Fire: Dense smoke of	8. HAZARD CLASSIFICATIONS
ninum oxide forms. Contact with er applied to adjacent fires causes	8.1 49 CFR Category: Not listed.
ent reaction producing toxic and	8.2 49 CFR Class: Not pertinent.
mable gases.	8.3 49 CFR Package Group: Not listed.
Ignition Temperature: Not pertinent -ignites at ambient temperature)	8.4 Marine Pollutant: No
rical Hazards: Not pertinent	8.5 NFPA Hazard Classification:
ing Rate: Not pertinent	Category Classification Health Hazard (Blue) 3
batic Flame Temperature: Currently	
available	Flammability (Red)
c.)	Instability (Yellow) 3
e Temperature: Currently not	Special (White) ₩
lable	* Up to 20% by weight in hydrocarbon solution. 8.6 EPA Reportable Quantity: Not listed.
bustion Molar Ratio (Reactant to	8.7 EPA Pollution Category: Not listed.
duct): 11.0 (calc.) mum Oxygen Concentration for	8.8 RCRA Waste Number: Not listed
nbustion (MOCC): Not listed	8.9 EPA FWPCA List: Not listed
CHEMICAL REACTIVITY	9. PHYSICAL & CHEMICAL
tivity with Water: Reacts violently to flammable ethane gas	PROPERTIES
tivity with Common Materials: No	9.1 Physical State at 15° C and 1 atm: Liquid
ificant reaction	9.2 Molecular Weight: 114.2
	9.3 Boiling Point at 1 atm: 367.9°F = 186.6°C =
alizing Agents for Acids and	459.8°K
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## TRIETHYLALUMINUM

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
55 60 65 70 75 80 95 90 95 90 100 105 100 110 120 120 120 120 130 130 135 160 165 170 175 180	52.460 52.350 52.230 52.110 52.000 51.880 51.760 51.650 51.630 51.420 51.300 51.420 51.300 51.300 51.370 50.950 50.840 50.720 50.600 50.490 50.370 50.250 50.490 50.250 50.490 50.250 50.490 50.250 50.490 50.250 50.490 50.490 50.370 50.250 50.490 50.490 50.370 50.490 50.400 50.500 50.400 50.500 50.400 50.500 50.400 50.5000 50.5000 50.5000 50.5000 50.5000 50.5000 50.50000 50.500000000	34 36 38 40 42 44 48 50 52 54 56 56 56 56 60 62 64 66 68 60 62 64 66 82 70 72 74 76 78 80 82 84	0.476 0.477 0.478 0.479 0.481 0.482 0.483 0.484 0.485 0.486 0.486 0.486 0.487 0.488 0.489 0.491 0.492 0.493 0.494 0.493 0.495 0.496 0.495 0.496 0.497 0.498 0.499 0.501 0.502 0.503 0.504	52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86	1.129 1.129	55 60 65 70 75 80 90 95 95 100 100 110 110 110 120 125 130 135 140 145 155 160 165 175 180	3.241 3.069 2.910 2.761 2.623 2.494 2.374 2.261 2.156 2.057 1.965 1.878 1.796 1.719 1.647 1.515 1.647 1.579 1.515 1.454 1.397 1.343 1.292 1.244 1.198 1.153 1.153 1.174

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	R EA C T S	180 190 200 210 230 240 250 260 270 280 290 300 310 320 330 330 330 330	0.079 0.115 0.165 0.234 0.326 0.449 0.612 0.826 1.103 1.458 1.910 2.480 3.195 4.082 5.176 6.516 8.516 8.148 10.120	180 190 200 210 230 240 250 260 270 280 290 300 310 320 330 330 330 330	0.00132 0.00267 0.00267 0.00371 0.00510 0.00693 0.00931 0.01238 0.01238 0.02126 0.02747 0.03520 0.04474 0.03520 0.04474 0.05642 0.07063 0.08779 0.10840 0.13300		N OT PERTINENT