ACETONITRILE

	IONARY RESPO	INSE INFORMATION					
Common Synonyms anomethane apenitrile	Watery liquid	Colorless Sweet odor					
yl nitrile thyl cyanide	Floats and mixes w	ith water. Flammable, irritating vapor is produced.					
Restrict access. Wear goggles and s Shut off ignition sour Stay upwind and use Avoid contact with li Notify local health ar Protect water intake	elf-contained breathing ap rces and call fire departme 3 water spray to ``knock do quid and vapor. nd pollution control agencie s.	paratus. int. jwm" vapor. es.					
Fire FLAMM POISO Flashb Vapor 1 Extingu Water Cooler	IABLE NOUS GASES MAY BE Pl ack along vapor trail may c may explode if ignited in ar oggles and self-contained ish with dry chemical, alco may be ineffective on fire. xoosed containers with wa	LE LS GASES MAY BE PRODUCED WHEN HEATED. along vapor trail may occur. explode if ignited in an enclosed area. les and self-contained breathing apparatus. with dry chemical, alcohol foam, or carbon dioxide. be ineffective on fire.					
xposure CALL F	FOR MEDICAL AID.						
VAPOF Irritatin If inhal Move t If breat If breat	VAPOR Irritating to eyes, nose and throat. If inhaled, will cause difficult breathing. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.						
LIQUID) g to skin and eyes.						
Harmfu Remov Flush a	I if swallowed. e contaminated clothing an affected areas with plenty of	nd shoes. of water.					
IF IN E IF SW/ milk.	YES, hold eyelids open an ALLOWED and victim is Co	Id flush with plenty of water. ONSCIOUS, have victim drink water or					
Water Danger May be Pollution Notify I	rous to aquatic life in high a dangerous if it enters wat ocal health and wildlife offi operators of nearby water	to aquatic life in high concentrations. ngerous if it enters water intakes. I health and wildlife officials. ators of nearby water intakes					
CORRECTIVE RESPO	INSE ACTIONS	2. CHEMICAL DESIGNATIONS					
Stop discharge		 Coronula: CHcCN Bornula: CHcCN IMO/UN Designation: 3/1648 DOT ID No.: 1648 CAS Registry No.: 75-05-8 NAERG Guide No.: 131 Standard Industrial Trade Classification: 51484 					
 Personal Protective Eq Symptoms Following E feeling of constrictio Severe exposures c death due to central Treatment of Exposure and oxygen if respirat TLV-TWA: 40 ppm TLV-STEL: Not listed. TLV-Ceiling: 60 ppm. Toxicity by Inplastion: C Ochronic Toxicity: Not point Othory of Coxicity: Not point Othory of Coxicity: Not point Othory of Solid Characc cause smarting and Odor Threshold: 40 pp Othor Foolid Characc Odor Threshold: 40 pp DIDH Value: 500 pm Odor Appendix 40 pp 	3. HEALTH H uipment: Wear self-conta xposure: Exposure to 16(n in the chest; 500 ppm fo ause irritability, skin erupti nervous system depressic c Remove victim from cont ation is impaired. Grade 3; LD∞ = 50-500 mc Currently not available. artinent aracteristics: Vapors cau high concentrations. Effec teristics: Minimum hazard reddening of the skin. m m isted. Listed.	AZARDS ined breathing apparatus) porm for 4 hours causes flushing of the face and a r brief periods is irritating to the nose and throat. ons, confusion, delirium, convulsions, paralysis, and on. tarrinated atmosphere. Give artificial respiration g/kg (guinea pig) ise a slight smarting of the eyes or respiratory t is temporary. . If spilled on clothing and allowed to remain, may					

4. FIRE HAZARDS	7. SHIPPING INFORMATION
 Flash Point: 42°F O.C. Flammable Limits in Air: 4.4%-16% Fire Extinguishing Agents: Alcohol foam, dry chemical, carbon dioxide Fire Extinguishing Agents Not to Be Used: Water may be ineffective Special Hazards of Combustion Products: Toxic vapors are generated when heated Behavior in Fire: Vapor heavier than air and may travel a considerable distance to a source of ignition and flash back. A tuto Ignition Temperature: 975°F Electrical Hazards: Not pertinent Burning Rate: 2.7 mm/min. Adiabatic Flame Temperature: Currently not available Stochometric Air to Fuel Ratio: 17.9 (calc.) 	7.1 Grades of Purity: Currently not availab 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Pressure-vacuum 7.5 IMO Pollution Category: III 7.6 Ship Type: 3 7.7 Barge Hull Type: 3 8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: II 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)
 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 4.5 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 	Instability (Yellow)
 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6.1 Aquatic Toxicity: 1150 ppm/24 hr/fathead minnow//Lm/ hard water 6.2 Waterfowl Toxicity: Not pertinent 6.3 Biological Oxygen Demand (BOD): 17%, 5 days 6.4 Food Chain Concentration Potential: None noted 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 2 Human Contact hazard: 1 Reduction of amenities: XX 	 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Lic 9.2 Molecular Weight: 41.05 9.3 Boiling Point at 1 atm: 179°F = 81.6°C 354.8°K 9.4 Freezing Point: -50.3°F = -45.7°C = 227.5°K 9.5 Critical Temperature: 526.5°F = 274.7 547.9°K 9.6 Critical Pressure: 701 pisa = 47.7 atm MN/m² 9.7 Specific Gravity: 0.787 at 20°C (liquid) 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 1.4 9.11 Ratio of Specific Heats of Vapor (Gat 1.192 9.12 Latent Heat of Vaporization: 313 Btu 174 cal/g = 7.29 X 10⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available
NOTE	:5

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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
-40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170	52.920 52.540 52.160 51.790 51.410 51.030 50.650 50.260 49.880 49.500 49.120 48.730 47.580 47.970 47.580 47.200 46.810 46.420 46.040 45.650 45.260 44.870	52 54 56 58 60 62 64 66 68 70 72 74 74 76 88 80 82 84 86	0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540		NOT РЕКТ-ТИИХТ		NOT PERT-ZEZT

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
	М — 9 С — В _ Е	10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230	0.209 0.298 0.417 0.575 0.781 1.046 1.383 1.805 2.329 2.972 3.755 4.699 7.169 8.747 10.590 12.740 15.220 18.060 21.310 25.000 29.170 33.870	10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230	0.00170 0.00237 0.00326 0.00440 0.00586 0.00770 0.01279 0.01620 0.02031 0.02521 0.03100 0.03780 0.04572 0.05487 0.06538 0.07737 0.06538 0.07737 0.06538 0.07737 0.106530 0.14280 0.14280 0.14280	0 25 50 75 100 125 150 175 200 225 250 250 325 350 325 350 375 400 425 450 475 525 550 575 600	0.280 0.287 0.295 0.303 0.310 0.317 0.324 0.332 0.338 0.345 0.359 0.365 0.359 0.365 0.359 0.365 0.372 0.378 0.384 0.390 0.390 0.402 0.402 0.402 0.402 0.419 0.425 0.430 0.435