

MATERIAL SAFETY DATA SHEET

II HAZARDOUS INGREDIENTS

MATERIAL OF COMPONENT	%	HAZARD DATA
ISOPROPYL ALCOHOL	60	FLAMMABLE CAS No.00067-63-0 UN No.1219
DEMINERALISED WATER	30	-----
ANTISTATIC	10	-----

III PHYSICAL DATA

BOILING POINT 760 MM HG	82.3°C	MELTING POINT	- 86°C
SPECIFIC GRAVITY (H ₂ O-1)	0.786	VAPOR PRESSURE	33 mm
VAPOR DENSITY (AIR-1)	2.1	SOLUBILITY IN H ₂ O BY WT	100
% VOLATILES BY VOL	1	EVAPORATION RATE (BUTYL ACETATE-1)	2.2
APPEARANCE AND ODOR	Slight odor resembling that of a mixture of ethanol and acetone. Slightly bitter in taste (not potable!)		

Physical Properties(Antistatic)

ZONYL	FSO
Ionic Type	Nonionic
Physical Form	Turbid Liquid
Percent Solids	50
Diluent	Water / Ethelene-Glycol, 25-25
Density, 25°C (77°F)	
g/ml (mg/m ³)	1.35
lb/gal	11.2
Flash Point, Pensky Martens Closed Tester	
°C	> 93
°F	> 286
Aqueous Surface Tensions	
dyn/cm (mN/m)	
0.01% Solids	19
0.10% Solids	19

** For product neutralized with sodium hydroxide to ph 7 – 8.

IV FIRE AND EXPLOSION DATA

FLASH POINT (TEST MEHTOD)	OPEN CUP	AUTOIGNITION TEMPERATURE	12°C		
FLAMMABLE LIMITES IN AIR. % BY VOL.		LOWER	2.0	UPPER	12
EXTINGUISHING MEDIA	As appropriate for combustibles in area.				
SPECIAL FIRE FIGHTING PROCEDURES	Addition of excess water will extract isopropyl alcohol and any form a flammable, supernatant layer. Self-contained breathing apparatus (scba) may be required if drums ruptured and contents are spilled under fire conditions.				
UNUSUAL FIRE AND EXPLOSION HAZARD	Drums may rupture under fire conditions. Decomposition may occur.				

V HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE	
ACUTE OVEREXPOSURE	Will cause the eyes, noses, throats delicate stimulation.
CHRONIC OVEREXPOSURE	A long touch will cause us vomit dried skin.
EMERGENCY AND FIRST AID PROCEDURES	
EYES	Use personal breath equipment.
SKIN	Use personal breath equipment.
INHALATION	Use personal breath equipment.
INGESTION	Drink several large glasses of water, call a physician
NOTES TO PHYSICIAN	
Ingestion or inhalation of large quantities of the vapor may cause flushing, headache, dizziness, mental depression, nausea, vomiting, narcosis, anesthesia, coma. 100ml can be fatal.	

VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY
INCOMPATIBILITY
HAZARDOUS DECOMPOSITION PRODUCTS
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED.
1>. Keep away from flame.
2>. Avoid eyes contact.
WASTE DISPOSAL METHOD
Use dried sand to absorb and discard.

VIII SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS
Use normal ventilation.
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY (SPECIFY IN DETAIL)
EYES Protective eyes and cleaning equipment
GLOVES Waterproof
OTHER CLOTHING AND EQUIPMENT
Personal breath equipment

IX SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS
OTHER HANDLING AND STORAGE REQUIREMENTS
1 >. Store in a cool place.
2 >. Keep away from flame.