Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.		
BEmergency Telephone Number Chem TrecChem Trec(800) 424-9300		
Telephone Number for Information (847) 541-5700		
Date Prepared07/28/09		
Signature of Preparer (optional)		
formation		
Common Name(s)) OSHA PEL ACGIH TLV Other Limits % (optional)		
Not Established 15-30%		
Not Established 25-40%		
Not Established 10-15%		
5 DDM 5 DDM 0.5 20		
5 PPM 5 PPM 0.5-2%		
5 PPM 5 PPM 0.5-2% (10 PPM STEL) 0.5-2% N/A 20-40%		

Section III- Physical/Chemical Characteristics							
Boiling Point 205° F		Specific Gravity (H ₂ 0=1)		1.17			
Vapor Pressure (mm Hg.) .2 mm	Hg at 20 0 c (68 0 F)	Melting Point		N/A			
Vapor Density (AIR =1) 5.5-6		Evaporation Rate (Butyl Ace	etate=1)	.06			
Solubility in Water 55-659	6						
Appearance and Odor Mild o	Appearance and Odor Mild odor						
Section IV- Fire and Explosion Hazard Data							
Flash Point (Method Used)	over 200 ⁰ F	Flammable Limits	LEL	1.1	UEL	8.5	
Extinguishing Media	Water fog, spray, dry	chemical C02					
Special Fire Fighting Procedures Do not enter confined fire space without protective equipment including NIOSH approved SCBA.							
Use water spray to cool fire exposed surfaces and to protect personnel.							
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 Unusual Fire and Explosion Hazards
 Low when exposed to flames. May react with strong oxidizing materials

 N/A = Not Applicable
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Section V-Reactivity Data Stability Unstable **Conditions to Avoid** Strong oxidizing agents, fire, flame Х Stable **Incompatibility** (*Materials to Avoid*) Strong oxidizing agents Hazardous Decomposition or Byproducts Unlikely Hazardous May Occur **Conditions to Avoid** N/A Polymerization Will Not Occur Х

Section VI-Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?	
	Not Established	Not Established	Not Established	
Health Hazards (Acute an	ad Chronic) Mildl	y to moderately irritating to eyes.		
	Prolo	nged exposure to skin may cause in	ritation redness.	
Carcinogenicity:	NTP?	IARC monog	graphs? OSHA Regulated?	
	Not liste	ed Not listed	Not regulated	
Signs and Symptoms of E	Exposure: Very slow ev	vaporation unlikely to reach exposu	re limits.	
Acute Overexposure:	Dizziness, drowsiness unlikely due to very slow evaporation. May cause temporary blurring of vision.			
Chronic overexposure: Upper respiratory tract irritation, lightheadedness.				
Medical Conditions Generally Aggravated by Exposure None established				
Emergency and First Aid	Procedures Inhalati	on-remove victim to fresh air and p	rovide oxygen it breathing is difficult.	
Eyes-flush exposed areas w	vith large quantities of	water. Skin-wash skin with soap and	d water. Use emollient skin creams.	
Ingestion-do not induce vo	miting. Call Physician.			

Section VII-Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Soak up with suitable, non -reactive absorbant material, collect in suitable containers for disposal. Remove any source of high heat, sparks, flame. Recovered free liquid may be re-used or reclaimed.

Dispose of in accordance with all Local, State and Federal regulations. Waste Disposal Method

Store at room temperatures between 40°F-110°F,keep container tightly Precautions to Be Taken in Handing and Storing closed. Do not mix with strong oxidants, acids or alkalies.

Other Precautions Do not reuse empty containers for other liquids.

Section VIII-Control Measures

Respiratory Protection (*Specify Type*) Use NIOSH approved chemical cartridge (organic vapor) respiratory equipment when spraving material (full face respirator is recommended)

Ventilation	Local Exhaust Sufficient to maintain air concentration as required by OSHA Special N/A			
	Mechanical (General) Ma	Other N/A		
Protective Gloves Butyl rubber, Neoprene gloves Eye Protection Eye protection for application and removal such as				
		chemical goggles.		
Other Protective Clothing or Equipment Impervious coveralls, apron, boots, as necessary to prevent skin contact.				
Eye wash as neede	ed.			
N/A = Not applica	ble.			

N/A = Not applicable.

Section IX-Additional Information

This product contains the following toxic chemicals which are subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TOXIC CHEMICAL	CAS #	APPROXIMATE % BY WEIGHT			
N-Methyl-2-Pyrrolidone Formic Acid	872-50-4 64-18-6	18.34% 0.99%			
SARA Title III Hazard Categories:	Immediate (Act	ite) Health Hazard			
TRANSPORTATION:	Not regulated a	s DOT Hazardous Material.			
California Proposition 65: This product contains N-Methyl Pyrrolidone, a chemical known to the state of California to cause birth defects or other reproductive harm.					