

MATERIAL SAFETY DATA SHEET



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INFORMATION TELEPHONE NO. (216) 566-2902
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Reducers

SOL/1

SECTION II		ACGIH		OSHA	Vapor Pressure (mm Hg)	V M & P Naphtha R1 K 3		Mineral Spirits R1 K 4		Exempt Xylol R4 K 11	Secondary Butanol R6 K 19	Diacetone Alcohol R6 K 24
CAS No.	HAZARDOUS INGREDIENT (percent by weight)	TLV <STEL>	PEL <STEL>	Units		154-2349 154-8700	154-2356	154-2323 154-8759	154-2331			
64742-89-8	V. M. & P. Naphtha.	300	300 <400>	PPM	12.0	100				23		
64742-88-7	Mineral Spirits.	100	100	PPM	2.0			100		53		
64742-94-5	Medium Aromatic Hydrocarbons	Not Established			0.1					1		
67-63-0	2-Propanol	400 <500>	400 <500>	PPM	33.0					3		
78-92-2	2-Butanol	100	100	PPM	12.0	Numbers in Boxes Are Percent By Weight						100
123-42-2	Diacetone Alcohol.	50	50	PPM	1.2							100
111-76-2	2-Butoxyethanol	25	25	PPM (Skin)	0.6					1		
108-94-1	Cyclohexanone	25	25	PPM (Skin)	2.0					18		
Weight per Gallon (lbs.)						6.20		6.35		6.57	6.69	7.79
VOC (Volatile Organic Compounds) - lbs./gal.						6.20		6.35		6.57	6.69	7.79
Photochemically Reactive						No		No		No	No	Yes
Flash Point (°F)						50		105		35	73	117
DOL Storage Category						1B		2		1B	1C	2
Flammability Classification (Flammable - Combustible)						Flammable		Combustible		Flammable	Flammable	Combustible
HMIS (NFPA) Rating (health - flammability - reactivity)						2 3 0		2 2 0		3 3 0	2 3 0	1 2 0

§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

→→→ MSDS Text Page Follows →→→

Section III — PHYSICAL DATA

PRODUCT WEIGHT - See TABLE	EVAPORATION RATE - Slower than Ether
SPECIFIC GRAVITY - 0.75-0.94	VAPOR DENSITY - Heavier than Air
BOILING RANGE - 178-415 °F	MELTING POINT - N.A.
VOLATILE VOLUME - 100 %	SOLUBILITY IN WATER - N.A.

FLAMMABILITY CLASSIFICATION FLASH POINT See TABLE LEL 0.8 UEL 12.7

See TABLE

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V — HEALTH HAZARD DATA

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. The alcohol in Sec-Butanol can be absorbed through the skin. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

ACUTE Health Hazards**EFFECTS OF OVEREXPOSURE**

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If SWALLOWED: Never give anything by mouth to an unconscious person. DO NOT INDUCE

VOMITING. Give several glasses of water. Seek medical attention.

CHRONIC Health Hazards

No ingredient in these products is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver and urinary systems. Prolonged overexposure to solvent ingredients in R4K11 may also cause adverse effects to the blood-forming and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section VI — REACTIVITY DATA

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION - Will Not Occur

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII — PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION

Wear safety spectacles with unperforated side shields.

Section IX — PRECAUTIONS

DOL STORAGE CATEGORY - See TABLE**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section X — OTHER REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

WARNING: Exempt Xylol contains a chemical(s) known to the State of California to cause cancer. V. M. & P. Naphtha contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of additives or other coatings materials to these products may substantially alter the composition and hazards of the products. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.