

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

TRADE NAME (as labeled): GR-1
Description: Screen Wash/Ink Degradent

DATE PREPARED/ REVISED:

June 15, 2005

MANUFACTURER'S NAME

Chemical Consultants, Inc.
1850 Wild Turkey Circle
Corona, CA 92880-1799 USA

PREPARER

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II. COMPONENT SAFETY DATA

Chemical Names	CAS Numbers	%	Exposure Limits in Air (give units)		Other (specify)
			ACGH TLV	OSHA PEL	
Propylene Ethers	Mixture	<15	Not Est'd	Not Est'd	
Esters	Mixture	>20	Not Est'd	Not Est'd	
Glycol Ethers	Mixture	<30	100PPM	100PPM	(Recommended)
Pyrrolidones	Mixture	<15	Not Est'd	Not Est'd	
Detergents	Mixture	<10	Not Est'd	Not Est'd	

III. PHYSICAL PROPERTIES

Vapor density (air =1): > 1
Specify gravity: 1.032
Solubility in water: 100%
Vapor pressure, mmHg at 20 °C: .013
Appearance and odor: Yellow liquid with slight pleasant smelling odor.

Melting point or range, °F: Unknown
Boiling point or range, °F: 315
Evaporation rate (butyl acetate =1): < 1
pH (1% solution):

IV. FIRE AND EXPLOSION

Flash point, °F (give method): 205 (TCC)
Auto ignition temperature, °F: Unknown
Flammable limits in air volume %: lower (LEL) Unknown upper (UEL) Unknown
Fire extinguishing materials: water spray foam carbon dioxide dry chemical other

Special fire fighting procedures:

Caution. Combustible. Do NOT enter confined fire space without full bunker gear, including a NIOSH approved self-contained breathing apparatus.

Unusual fire and explosion hazards:

Containers exposed to intense heat should be cooled with water to prevent vapor pressure build up, which could result in container rupture.

V. REACTIVITY DATA

Stability: Stable Unstable

Conditions to avoid:

Keep away from heat, flame and sparks.

Incompatibility (materials to avoid):

Strong oxidizing agents and acids, and alkalis

Hazardous decomposition products (including combustion products):

CO, CO₂, and unidentified organic compounds.

Hazardous polymerization: May occur Will not occur

Conditions to avoid:

None known

VI. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure.

Inhaled: Mist may cause irritation of mucous membranes, nose eyes and throat.

Skin: May cause irritation of dermatitis in some individuals upon prolonged contact.

Swallowed: May cause irritation of mouth and throat. Nausea and possible vomiting. Swallowing large amounts may cause dizziness, nausea & confusion.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: Explain in lay terms.

Acute: Skin irritation, defatting of natural oils to dermal area. Mild reversible liver & nasal effects.

Chronic: Animal studies have disclosed a possible reproductive toxin.

FIRST AID EMERGENCY PROCEDURES:

Eye contact: Flush immediately with fresh water for at least 15 minutes. Contact a physician if irritation or blurred vision occur.

Skin contact: Remove contaminated clothing. Wash with soap and water. If irritation occurs, seek medical aid.

Inhaled: Remove victim to fresh air. Provide oxygen if breathing is difficult. Seek medical aid.

Swallowed: Do not induce vomiting. Drink large quantities of milk or water. Seek medical aid.

CARCINOGENICITY? YES: _____ NO:

This product's ingredients are found in this list. Federal OSHA _____ NTP _____ IARC _____ ACGIH _____

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin conditions. Pre-existing respiratory conditions.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Small spills may be wiped. Contain large spills by diking.

Disposal Methods: RCRA Class: Not regulated. EPA Hazardous substance reportable quantity: Not listed. May be supplied to biological treatment plant or incinerated.

NOTE: Dispose of all wastes in accordance with federal, state, and local regulations.

VIII. SPECIAL HANDLING PROCEDURES

Respiratory protection (type): None required under normal use conditions.

Ventilation and engineering controls: Local exhaust to maintain below PEL

Eye protection (type): Safety glasses.

Gloves (specify material): Nitrile gloves to prevent direct skin contact.

Other clothing and equipment: Adequate protective clothing to prevent skin contact.

Work practices, hygienic practices: Wash thoroughly after handling.

Other handling and storage requirements: Store away from ignition sources and in a cool dry area. Combustible. Keep soiled rags in a proper container.

IX. REPORTING REQUIREMENTS & ADDITIONAL INFORMATION

HMIS Code System Rating = Health 2; Flammability 1; Reactivity 0

NFPA 704 Code System Rating = Health 1; Flammability 1; Reactivity 0

Volatile Organic Compound (VOC) = 732 grams per liter or 6.1 lbs. per gallon

Chemical or Category: Glycol Ethers Cas Reg No: N/A Upperbound by weight: 30%

Chemical or Category: Pyrrolidone Cas Reg No: N/A Upperbound by weight: 15%

This product contains chemicals on the SARA Title III, Section 313 and 40 CFR/372, that are subject to reporting

This product contains a Proposition 65 designated chemical.

Non-photochemically reactive.

Contains no chlorinated or petroleum hydrocarbons.