

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

TRADE NAME (as labeled): GR-19
Description: Ink Degradent/Solubilizer

DATE PREPARED/ REVISED:

July 22, 2005

MANUFACTURER'S NAME

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

PREPARER

J. Monte Ross
PHONE NUMBER:
(951)735-5511

II. COMPONENT SAFETY DATA

Chemical Names	CAS Numbers	%	Exposure Limits in Air (give units)		Other (specify)
			ACGH TLV	OSHA PEL	
Citrus Terpenes	5898-27-5	<10	Not est'd	Not est'd	
Propylene Glycol Ethers	Mixture	>20	Not est'd	Not est'd	
Alkyl Lactones	Mixture	>30	Not est'd	Not est'd	
Glycol Ethers	Mixture	>30	100 PPM	100 PPM	(recommended)
Detergent	Mixture	>5	Not Es'td	Not Es'td	

III. PHYSICAL PROPERTIES

Vapor density (air =1): >1
Specify gravity: 1.05
Solubility in water: Miscible
Vapor pressure, mmHg at 20 °C: >5
Appearance and odor: Clear liquid with citrus odor.

Melting point or range, °F: NA
Boiling point or range, °F: >300° F
Evaporation rate (butyl acetate =1): <1
pH (1% solution): 7.0

IV. FIRE AND EXPLOSION

Flash point, °F (give method): 175(TCC)
Auto ignition temperature, °F: Not Tested
Flammable limits in air volume %:
Fire extinguishing materials: water spray lower (LEL) Unknown upper (UEL) Unknown
foam carbon dioxide other _____
dry chemical

Special fire fighting procedures:

COMBUSTIBLE. Do not enter confined fire space without full bunker gear, including a pressure 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. Solvent impregnated rags or wipes should be kept in a tightly closed container.

V. REACTIVITY DATA

Stability: Stable Unstable _____

Conditions to avoid:

Keep away from heat, flame and sparks.

Incompatibility (materials to avoid):

Strong oxidizers 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: May cause irritation of mucous membranes, nose, eyes and throat.

Skin: No effect of exposure expected due to contact. May cause irritation or dermatitis in some individuals.

Swallowed: May cause irritation of mucous membranes, nose, eyes and throat.

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

Acute: Skin irritation. Defatting of natural oils causing dryness, redness.

Chronic: None known.

FIRST AID EMERGENCY PROCEDURES:

Eye contact: Immediately flush eyes with fresh water or use emergency eye wash station.

Skin contact: Remove contaminated clothing. Flush skin with fresh water.

Inhaled: Remove to fresh air.

Swallowed: Drink large quantities of water. Do not induce vomiting. 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-skin conditions

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Eliminate sources of ignition. Absorb small spills onto suitable absorbent. Contain large spills by diking. Use appropriate personal protective equipment during clean up.

Disposal Methods: May be incinerated. RCRA Class : Not Regulated. EPA hazardous substance reportable quantity: Not listed. Drain safe
May be supplied to biological treatment plant.

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

VIII. SPECIAL HANDLING PROCEDURES

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

Ventilation and engineering controls: Local exhaust to maintain below PEL.

Eye protection (type): Chemical safety goggles.

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

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

Work practices, hygienic practices: Wash hands thoroughly after contact and before eating.

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 1; Flammability 2; Reactivity 0.

NFPA 704 Code System Rating = Health 1; Flammability 2; Reactivity; 0.

VOC (Volatile Organic Compound) = 625 gms/liter or 5.20 lbs./gal Calculated

Contains a component subject to reporting under SARA Title III, Section 313

This product contains no California Prop 65 designated chemicals

Non-photochemically reactive