

Reichhold, Inc.
 Corporate Headquarters
 P.O. Box 13582
 Research Triangle Park, NC 27709-3582

Street Address:
 2400 Ellis Road, Durham, NC 27703

REICHHOLD

8am to 5pm Phone: 1-800-275-6353
 24-Hour Emergency Phone: 1-800-424-9300

Effective Date: 11/17/04

Material Safety Data Sheet

MSDS No: 7200

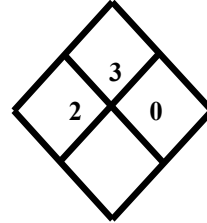
1. PRODUCT IDENTIFICATION

Trade Name: KELSOL® 3941-B2G7-75

Material Code: 91724-00

Chemical Family: Alkyd Resin

Intended Use: Component of Coating or Paint



NFPA RATING

Health:	2*
Flammability:	3
Reactivity:	0
Personal Protection:	

HMIS RATING

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	5131-66-8	Propylene Glycol Monobutyl Ether	NE	NE	NE	NE	TWA 50 ppm	NR	NR	NR
	Common Name: Concentration	Propylene Glycol Monobutyl Ether 4.00 - 6.00 % by wt								
	Proprietary Concentration	Alkyd Resin 74.00 - 76.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	78-92-2	2-Butanol	100 ppm	NE	100 ppm	NE	NE	NR	NR	NR
	Common Name: Concentration	sec-Butyl Alcohol 19.00 - 21.00 % by wt								

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

Reference Notes: Refer to Section 8, Subheading "Exposure Guidelines", for additional information concerning exposure limits.

3. HAZARDS IDENTIFICATION

Emergency Overview: Appearance: Clear Amber Liquid Ether odor

FLAMMABLE liquid and vapor. Vapor released from this material may form an explosive mixture with air. Vapor can travel to a source of ignition (spark or flame) and flash back.

Route(s) of Entry: Ingestion, inhalation, and skin contact. Skin absorption.

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Acute Exposure: EYES: Direct contact with this material causes severe eye irritation. High vapor concentrations may be irritating. May cause moderate corneal injury.

SKIN: Mildly irritating. Prolonged or repeated skin contact can result in defatting and drying of the skin. Harmful if absorbed through skin.

INHALATION: Inhalation of vapor or aerosol may cause irritation to the respiratory tract (nose, throat, and lungs). High vapor concentrations may cause central nervous system depression.

INGESTION: Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or lung damage.

Chronic Exposure: Prolonged or repeated exposure may cause damage to the central nervous system and may result in permanent brain damage. Symptoms include: loss of memory, loss of judgement, and loss of coordination. Prolonged or repeated exposure may cause liver and kidney damage.

Exposure to organic solvents during pregnancy may cause an increased risk of birth defects.

Carcinogenicity: This material does not contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.

4. FIRST AID MEASURES

Eye Contact: Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Skin Contact: Immediately flush skin with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation develops. Wash contaminated clothing before reuse.

Ingestion: DO NOT INDUCE VOMITING. ASPIRATION HAZARD: this material may enter the lungs during vomiting. Immediately give the victim one or two glasses of water or milk to drink. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation: Remove victim to fresh air. Keep warm and quiet. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. GET IMMEDIATE MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

Flash Point:	93° F (34 ° C)
Flash Point Method Used:	SetaFlash Closed Cup
Flammable Limits in Air (Lower):	1.3 % in air
Flammable Limits in Air (Upper):	16.9 % in air
Autoignition:	500 - 662° F (260 - 350 ° C)

General Hazards: FLAMMABLE LIQUID: This material's flash point is less than 100°F (38°C). Containers of this material may build up pressure if exposed to heat (fire). See information in Fire Fighting Instructions (below) in this section.

Fire Fighting Extinguishing Media: Use alcohol foam, dry chemical, carbon dioxide or any Class B fire extinguishing agent. Water may be unsuitable in extinguishing a fire with this material. However, water may be used to cool and prevent the rupture of containers that are exposed to the heat of a fire.

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Fire Fighting Equipment: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use.

Fire Fighting Instructions: Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Use water spray to cool fire-exposed containers. DO NOT extinguish a fire resulting from the flow of this flammable liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished.

Fire and Explosion Hazards: FLAMMABLE LIQUID. Vapors can form an explosive mixture with air. Vapor can travel to a source of ignition (spark or flame) and flash back. Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death.

When driers such as cobalt naphthanate are added, air oxidation of the resin or materials contaminated with the resin may cause it to spontaneously combust. To avoid spontaneous combustion: (1) prevent residue build-up and (2) soak soiled rags, spray-booth filters and over-spray waste in a closed water-filled metal container.

Hazardous Combustion Products: Combustion may produce carbon monoxide, carbon dioxide and irritating or toxic vapors and gases.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: FOR SMALL SPILLS: Remove all sources of ignition. NO SMOKING. Use non-sparking (non-metallic) tools to clean up spill. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

FOR LARGE SPILLS: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). NO SMOKING. Persons not wearing protective equipment (see Section 8) should be excluded from the area of the spill until clean-up has been completed. Stop spill at source. Prevent spilled material from contaminating soil or entering drains, sewers, streams or other bodies of water. Prevent spilled material from spreading. Immediately notify authorities of any reportable spill as may be required pursuant to regulations. See Section 15 for applicable CERCLA reportable quantities. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other waste materials to waste containers for disposal. Be aware of potential fire and explosion hazards in surrounding and downwind areas.

7. HANDLING AND STORAGE

Signal Word: W A R N I N G

Handling Information: Avoid inhalation and contact with eyes, skin, and clothing. Remove and wash contaminated clothing before reuse. Wash hands thoroughly after handling and before eating or drinking. Use with adequate ventilation. Avoid ignition sources (flames, pilot lights, electrical sparks). NO SMOKING. Ground and bond containers when transferring the material to prevent static electricity sparks which could ignite the vapor. Use spark-proof tools and explosion-proof equipment.

Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death. Empty drums should be completely drained and properly bunged. Empty drums should be promptly returned to a drum reconditioner or properly disposed.

Storage Information: Keep container closed when not in use. Store in a cool, well ventilated space away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Exposure Guidelines: A supplier recommended TWA exposure limit of 50 ppm has been established for Propylene Glycol Monobutyl Ether.

Engineering Controls: Use general ventilation to maintain airborne concentrations to levels that are below regulatory and recommended occupational exposure limits. See occupational exposure limits in Section 2. Local ventilation may be required during certain operations. Use explosion-proof ventilation equipment.

Eye Protection: Wear 1) safety glasses with side shields and a faceshield or 2) goggles and a faceshield. Facilities storing or utilizing this material should be equipped with an eyewash station and safety shower.

Skin Protection: Wear chemical resistant gloves such as nitrile rubber or butyl rubber with a laminated film glove, such as the Ansell Edmont Barrier®, underneath. If splashing is likely, wear impervious clothing and boots to prevent repeated or prolonged skin contact. Consult your supplier of personal protective equipment for additional instructions on proper usage.

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Protection provided by air purifying respirators is limited. Use a positive pressure air-supplied respirator if 1) there is any potential for an uncontrolled release, 2) exposure levels are not known, or 3) during other circumstances where air purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear Amber
Odor:	Slight Ether Odor
Odor Threshold:	Not available
Physical State:	Liquid
Solubility in Water:	Not available
Viscosity:	130 - 180 Stokes at 25°C (77 °F)
Vapor Pressure:	1.7 - 12 mm Hg at 20°C (68 °F)
Specific Gravity:	1.03 (Water = 1) at 25°C (77 °F)
Boiling Point:	211 - 302° F (99 - 150 ° C)
Freezing Point:	< 32°F (< 0 °C)
Evaporation Rate:	0.21 - 1.2 (BuAc=1)
Vapor Density:	> 1 (AIR=1)
% Volatile:	24 - 26 % by weight
VOC Content:	258 grams/liter (calculated)product as supplied
pH:	Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions.

Incompatibility: Avoid contact with strong oxidizing agents. Avoid contact with acids. Avoid contact with strong bases. Avoid contact with chlorinated compounds.

Hazardous Decomposition Products: Thermal decomposition may form: carbon monoxide, carbon dioxide, and various hydrocarbons.

Hazardous Polymerization: Hazardous polymerization will NOT occur.

Conditions to Avoid: Ignition sources. Contamination by those materials referred to under Incompatibility.

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11. TOXICOLOGICAL INFORMATION

Acute Eye Toxicity: sec-Butyl Alcohol: eye irritation (rabbit), rated 4 on a scale of 1-10, 24 hr.

Acute Skin Toxicity: sec-Butyl Alcohol: dermal LD50 (rat), > 2,000 mg / kg. Propylene Glycol Monobutyl Ether: dermal LD50 (rats), > 2 g / kg.

Acute Inhalation Toxicity: No information is available.

Acute Oral Toxicity: Propylene Glycol Monobutyl Ether: oral LD50 (rat), 3300 mg / kg. sec-Butyl alcohol: oral LD50 (rat), 6,480 mg / kg.

Chronic/Carcinogenicity: This material does not contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the United States Occupational Safety and Health Administration (OSHA) as a carcinogen.

Teratology: Occupational exposure to organic solvents during pregnancy is associated with an increased risk of major fetal malformations. Women reporting symptoms associated with exposure appear to have an even greater risk compared to asymptomatic exposures.

Additional Information: No toxicological data are available for this product. Based on properties and similar polymers, the alkyd resin is not hazardous.

Refer to Section 3 for available information on potential health effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity: 1-Propoxy, 2-Propanol is practically non-toxic to aquatic organisms on an acute basis: LC50 (fathead minnow), > 1000 mg/L; LC50 (Daphnia magna), > 100 mg/L. EC50 (green alga), 1466 mg/L. sec-Butyl alcohol: LC50 (fathead minnow), 3,670 g / L / 96 hr.

Environmental Fate: The bioconcentration level of 1-Propoxy, 2-Propanol is low. 1-Propoxy, 2-Propanol is readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: RCRA HAZARDOUS WASTE: This material and containers that are not empty, if discarded, would be regulated as a hazardous waste under RCRA. Treatment and/or disposal must be completed at a RCRA-permitted Treatment, Storage and Disposal Facility (TSD). The storage and transportation of RCRA hazardous wastes are also regulated by the USEPA.

"Empty containers", as defined under 40 CFR 261.7 or other applicable state or provincial regulations or transportation regulations, are not classified as hazardous wastes.

RCRA Hazard Class: D001 (IGNITABLE): When discarded in its purchased form, this material would be regulated under 40 CFR 261.21 as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

14. TRANSPORT INFORMATION

DOT: Bulk and Non-Bulk

Proper Shipping Name:	RESIN SOLUTION
Hazard Class:	3
ID Number:	UN1866
Packing Group:	III
ERG Number:	127

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TDG: Bulk and Non-Bulk

Proper Shipping Name: RESIN SOLUTION
Hazard Class: CLASS 3
ID Number: UN1866
Packing Group: III
ERG Number: 127

IATA: Non Bulk

Proper Shipping Name: RESIN SOLUTION
Hazard Class: 3
ID Number: UN1866
Packing Group: III
ERG Number: 127

IMDG: Bulk and Non-Bulk

Proper Shipping Name: RESIN SOLUTION
Hazard Class: CLASS 3
ID Number: UN1866
Packing Group: PG III
ERG Number: 127

15. REGULATORY INFORMATION

Occupational Safety and Health Act (OSHA): This material is classified as a hazardous chemical under the criteria of the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS): This product does not contain any SARA Title III, Section 302 listed chemicals.

SARA Title III: Section 304 - CERCLA: This product does not contain any chemicals regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): This material is classified as an IMMEDIATE HEALTH HAZARD, DELAYED HEALTH HAZARD, and FLAMMABILITY HAZARD under the US Superfund Amendment and Reauthorization Act (Section 311/312).

SARA Title III: Section 313 Toxic Chemical List (TCL): sec-Butyl Alcohol (78-92-2)

TSCA Section 8(b) - Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

TSCA Section 12(b) - Export Notification: This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification requirements.

Australian Inventory Status: This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances.

Canadian Inventory Status: All components of this material are listed on the Canadian Domestic Substances List (DSL).

Canadian WHMIS: This material is classified by the Canadian Workplace Hazardous Material Information System as: B2 (flammable liquid) D2B (materials causing other toxic effects, toxic material)

European Inventory Status (EINECS): All components are either listed or are exempt from being listed, on the EINECS chemical inventory. The polymer portion of this product is manufactured from reactants which are listed on EINECS and meets the EINECS definition of an exempt polymer.

Korean Inventory Status: This product contains one or more chemicals currently not on the Korean Chemical Substances List.

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California Proposition 65: This product is not known to contain any chemicals listed by the State of California (Safe Drinking Water and Toxic Enforcement Act of 1986) to cause cancer or reproductive toxicity.

Additional Canadian Regulatory Information: This product contains the following chemical(s) listed on the WHMIS Ingredient Disclosure List at or above the specified concentration limit: sec-Butyl Alcohol (CAS# 78-92-2)

16. OTHER INFORMATION

MSDS No:	7200
Reason Issued:	NEW
Prepared By:	Product Safety & Compliance Department

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