

MATERIAL SAFETY DATA SHEET

SECTION 1

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Clear Acrylics

ACR/KI

SECTION II CAS No. HAZARDOUS INGREDIENT (percent by weight)	ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	Net Weight 13 oz.	
					1301 Acrylic Crystal Clear	1302 Acrylic Crystal Clear (Radio-TV)
74-98-6 Propane (propellant)			1000 PPM	760.0	15	15
75-28-5 2-Methylpropane (propellant)			Not Established	760.0	15	15
742-89-9 LI. Isoprenafinic Hydrocarbon	100	100	PPM	53.0	17	17
108-88-3 Toluene	100	100	PPM	22.0	16	16
00-41-4 Ethylbenzene	<150>	<150>	PPM	7.1	3	3
109-20-7 Xylene	100	100	PPM	5.9	13	13
42-95-6 Aromatic Petroleum Distillates	<125>	<125>	PPM	5.9	13	13
67-64-1 Acetone	Not Established	Not Established		3.8	2	2
	750	750	PPM	180.0	11	11
	<1000>	<1000>				
VOC as a percent by weight, per BAAQMD Rule 40, Regulation 8					92	92
HMIS® Ratings (Health - Flammability - Reactivity)					2-4-0	2-4-0

§ ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.85 C

PURSUANT TO PROPOSITION 65: This product contains Toluene which is known to the state of California to cause reproductive toxicity.

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Section III — PHYSICAL DATA

PRODUCT WEIGHT - N.A.
SPECIFIC GRAVITY - N.A.
BOILING RANGE - <0-140 °F
SOLUBILITY IN WATER - N.A.

EVAPORATION RATE - Faster than Either
VAPOR DENSITY - Heavier than AIR
MELTING POINT - N.A.

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION - FLASH POINT <0 °F PMCC LEL 0.8 UEL 12.8
D LABEL - Extremely Flammable, Flash below 21 °F

WASHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

FLAME AND EXPLOSION HAZARDS

Ignite from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Emergency conditions overexposure to decomposition products may cause a health hazard. All may not be immediately apparent. Obtain medical attention.

ALL FIRE FIGHTING PROCEDURES

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

Section V — HEALTH HAZARD DATA

TYPE OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Recommendations for proper use, ventilation, and personal protective equipment to minimize exposure.

HEALTH HAZARDS

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Overexposure may result in unconsciousness and possibly death.
SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure or spray mists.
SYMPTOMS OF OVEREXPOSURE: Itching or burning sensation may indicate eye or excessive skin exposure. Generally recognized.

FIRST AID PROCEDURES

INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. Wash affected area thoroughly with soap and water.
ON SKIN: Remove contaminated clothing and launder before re-use. Flush eyes with large amounts of water for 15 minutes. Get medical attention.
INGESTED: Seek medical attention.

HAZARD INFORMATION

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 liver, urinary, cardiovascular, blood-forming and reproductive systems. Accidents have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section VI — REACTIVITY DATA

STABILITY

Stable

REACTIVITY

Not known.

DECOMPOSITION PRODUCTS

Carbon Dioxide, Carbon Monoxide

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 this product 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 number.

Do not incinerate. Depressurize 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.
This coating may contain materials classified as nuisance particulates (listed as dust in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m³ (total dust), OSHA PEL 15 mg./m³ (total dust), 5 mg./m³ (respirable fraction).

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 1910.107, 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.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

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

EYE PROTECTION

Wear safety spectacles with unperforated subshields.

Section IX — PRECAUTIONS

DO NOT STORE CATEGORY I-A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

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.

Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 120 °F. Heat from sunlight, radiators, stoves, hot water, and other heat sources will cause container to burst. 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.

This Material Safety Data Sheet conforms to the Revised Nomenclature Standard,

29 CFR 1910.1200(g)(4), for similar complex mixtures.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. 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.

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THE RECTORSEAL CORPORATION **MATERIAL SAFETY DATA SHEET**
 2830 PRODUCE ROW DIRECT TO APPROPRIATE PERSONNEL
 HOUSTON, TX 77023-5822 Date of Preparation: 12/16/91
 Telephone No.: (713) 928-6423 Supersedes Any Previous Issue
 Emergency Telephone No.: (800) 424-9300 (CHEMTREC - Day or Night)

SECTION I - PRODUCT IDENTIFICATION

Product Name: **RECTORSEAL® NO. 2**
 Product Type: Pipe Thread Sealing Compound

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS:	APPROX. %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Toluene (CAS #108-8803)*	20	100 ppm	100 ppm	STEL 150 ppm
Isopropyl Alcohol (CAS #67-63-0)*	5	400 ppm	400 ppm	STEL 500 ppm
Xylene, Mixed Isomers* (CAS #1330-20-7)	5	100 ppm	100 ppm	STEL 150 ppm
Methyl Isobutyl Ketone* (CAS #108-10-1)	2	50 ppm	50 ppm	STEL 75 ppm

SPECIAL HAZARD DESIGNATIONS

DOT (49CFR172): Adhesives, Class 3, PG II, UN 1133, ERG #26
 Quarts and less: Consumer Commodity, ORM-D

			HMIS	NFPA
OSHA (29CFR1910.1200) Evaluation:	Hazardous	Health:	2	2
RCRA (40CFR261) Evaluation:	Hazardous Waste	Flammability:	3	3
EPA/TSCA Listed Ingredients:	Yes	Reactivity:	0	0
KEY:	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious
			4 - Severe	

* SARA - This product contains the above asterisked toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS that are copied and distributed for this product to your customers. By law, you may also be required to report on annual emissions of specified toxic chemicals and chemical categories. If you are unsure of your obligations under these regulations, you may obtain more information by calling the EPA Emergency Planning and Community Right-To-Know Hotline at (800) 535-0202 or (202) 479-2449 (in Washington, D.C. or Alaska).

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 232°F (111°C) @ 760 mm Hg Specific Gravity (H₂O=1): 1.2
 Vapor Pressure (mm Hg.): 22 @ 68°F (20°C) Melting Point: N/A
 Vapor Density (AIR =1): 3.2 Evaporation Rate (Ethyl Acetate=1): 2.0
 Solubility in Water: 5% Appearance/Odor: Ivory Paste/Aromatic Odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 50°F (10°C) SETA CC Flammable Limits-LEL:1.0% UEL: 13.0%

Extinguishing Media: Foam, dry chemical, CO₂, or water fog.

Special Fire Fighting Procedures: Wear self-contained full face-piece breathing apparatus and other protective clothing. Hazardous decomposition products possible (see Section V). Evacuate immediate area.

Unusual Fire and Explosion Hazards: Flammable - low flash point. Vapors are heavier than air and may travel along ground or to low spots at considerable distances to a source of ignition resulting in potential flashback. Burning liquid may float on water. Heat may build up pressure and rupture closed containers.

SECTION V - REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: Heat, sparks, open flames, strong oxidizing conditions.

Incompatibility (Materials to Avoid): Gaseous oxygen, strong oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, and fragmented hydrocarbons.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: **Inhalation:** Yes **Skin:** Yes **Ingestion:** Yes
Health Hazards (Acute and Chronic): Irritation of eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentration. Skin irritation, dermatitis, and defatting. Possible liver and kidney damage.
Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No
Signs and Symptoms of Exposure:
Eyes: Watering, blurred vision, inflammation, and irritation which can result in corneal injury.
Inhalation: Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.
Ingestion: Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.
Skin: Irritation, dermatitis.
Medical Conditions Generally Aggravated by Exposure: Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver or kidneys may have increased susceptibility to excessive exposures.
Emergency and First Aid Procedures:
Eyes: Flush with large amounts of water for at least 15 minutes. Seek immediate medical attention.
Inhalation: Remove to fresh air. Administer oxygen or artificial respiration if needed. Seek immediate medical attention.
Ingestion: DO NOT INDUCE VOMITING. Give large amounts of water only if conscious. Seek immediate medical attention.
Skin: Wash with soap and water. If irritation occurs, seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Remove all sources of ignition. Use absorbent materials to prevent footing hazard. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.
Waste Disposal Method: RCRA classified hazardous waste. Dispose of absorbed materials and liquid wastes in approved, controlled incineration facility in accordance with all local, state, and federal regulations.
Precautions to Be Taken in Handling and Storing: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames.
Other Precautions: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues and vapors; treat as if full and observe all product precautions. Do not reuse empty containers. Keep out of reach of children.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): In confined, poorly ventilated areas, use NIOSH/MSHA-approved air purifying or supplied air respirators.
Ventilation - Local Exhaust: Acceptable **Special:** Explosion-proof equipment
Mechanical (General): Preferable **Other:** N/A
Protective Gloves: Wear non-permeable gloves **Eye Protection:** Goggles
Other Protective Clothing or Equipment: Coveralls recommended
Work/Hygienic Practices: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

This document is prepared pursuant to the OSHA Hazard Communication Standard (29CFR1910.1200). The information herein is given in good faith, but no warranty, express or implied, is made. Consult The RectorSeal Corporation for further information: 713-928-6423.

ABBREVIATIONS: **N/A:** Not Applicable **N/D:** Not Determined