



CLEAR HEAT CURE COMPOUND

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
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FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 1 Flammability: 0 Reactivity 0

PRODUCT NAME: CLEAR HEAT CURE COMPOUND

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 01/08/03
SUPERCEDES: 10/01/02
MSDS NO. M872-680

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
acetic acid ethenyl ester	51-60	9003-22-9	No PEL established
Epoxidized Soybean Oil	11-20	8013-07-8	No PEL established
2,2,4-trimethyl-1,3-pentanediol bis (2-methylpropanoate)	1-10	6846-50-0	No PEL established
silica	1-10	68611-44-9	No PEL established
Quartz	<1	14808-60-7	see Table Z-3

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation, ingestion, skin, eyes.
Medical Conditions Aggravated: Respiratory allergies. Eye disease. Respiratory disease including asthma and bronchitis.

Immediate (Acute) Health Effects

Inhalation: Irritating to the nose, throat, and respiratory tract. No hazard in normal industrial use. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

Skin Contact: May cause skin irritation. Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact:	Can cause mechanical irritation if dusts are generated. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible. No hazard in normal industrial use. Can cause minor irritation, tearing and reddening.
Skin Absorption:	No component(s) in this product is known to be absorbed through the skin.
Ingestion:	Irritating to mouth, throat, and stomach. No hazard in normal industrial use. Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.
Target Organ Acute Toxicity: Silica, crystalline	respiratory system, eyes (in animals: lung cancer)

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA. No data.
Reproductive and Developmental Toxicity:	No information available.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Prolonged or repeated contact may cause irritation. Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Upon prolonged or repeated contact, dust contact can cause mechanical irritation. Upon prolonged or repeated contact, can cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Skin Absorption:	Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material.
Target Organ Chronic Toxicity:	No Data. Eyes. Respiratory Tract.
Supplemental Health Hazard Information:	No additional health information available.

IV. FIRST AID

Inhalation:	Remove to fresh air. Remove to fresh air. No first aid expected to be needed. This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.
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Eyes: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with mild soap and water. If irritation occurs get medical attention. If clothing is contaminated, remove and wash before reuse. Wash with soap and water. Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Seek medical advice. Get medical attention. No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

Notes to MD: Treat according to symptoms present.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: >200 (CALC.) °F

Upper Flammable/Explosive Limit, % in air: 3.1 @ 77° F

Lower Flammable/Explosive Limit, % in air: 0.5 @ 77° F

Fire Hazards: Use bonding and grounding when transferring this material and dusting could occur. Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Extinguishing Media: CO2, dry chemical, foam Water fog, dry chemical, CO2 Use alcohol resistant spray, Carbon Dioxide, water spray or dry chemical to extinguish a fire involving this chemical. Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid.

Fire Fighting Instructions: Water spray may be used to cool containers however be careful not to spread the fire with the water used for cooling purposes. Use methods for the surrounding fire. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

Spill Mitigation Procedures
General Methods: No special spill clean-up considerations. Collect and discard in regular trash.

VII. HANDLING AND STORAGE

Handling: Use bonding and grounding when transferring quantities of material. Avoid contact with material. Minimize dust generation and accumulation. Mildly irritating material. Avoid unnecessary exposure.

Storage: Do not store in direct sunlight. Keep tightly closed and protect from light. Keep container closed when not in use. No special requirements.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Use heated product in a well ventilated area only. Supply supplemental exhaust ventilation as needed to ensure exposure standards are met, if relevant, or to maintain operator comfort. No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Protective Equipment

Respiratory Tract: Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

Eyes: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

Physical State:	CLOUDY VISCOUS LIQUID
Odor:	STRONG SOLVENT
Solids Vol %:	100.0000
Solids Wt %:	100.0000
Material VOC lbs/gal:	0.0000
Material VOC gms/l:	0.0000
Coatings VOC lbs/gal:	0.000
Coatings VOC gms/l:	0.00
Weight per gallon:	9.8842

X. STABILITY AND REACTIVITY

Stability Information: Stable. However, may decompose if heated. Stable. Stable under normal conditions.

Conditions to Avoid: Contact with oxidizing materials. Contamination. None known.

Chemical Incompatibility: Oxidizing materials. Strong oxidizing agents. Metals.

Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Epoxidized soybean oil	8013-07-8	Oral LD50 Rat : 40 gm/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available. This material is not expected to be harmful to the ecology.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures. Spent or discarded material is not expected to be a hazardous waste.

Disposal Methods: Landfill spent or discarded material in a permitted industrial waste facility. Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations. Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of in a landfill. Disposal is not likely to be regulated.

Components Subject to USEPA Land Disposal Restrictions:

No chemicals subject to land disposal restrictions. %

XIV. TRANSPORTATION INFORMATION

DOT NON REGULATED

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
No 313-listed chemicals in this product	SARA 313 Reportable:		
acetic acid ethenyl ester	New Jersey Right To Know:	9003-22-9	51.59
Plasticizer	New Jersey Right To Know:	proprietary	20.03
Epoxidized Soybean Oil	New Jersey Right To Know:	8013-07-8	15.63
Epoxidized Soybean Oil			
2,2,4-trimethyl-1,3-pentanediol bis (2-methylpropanoate)	New Jersey Right To Know:	6846-50-0	7.82
silica	New Jersey Right To Know:	68611-44-9	2.5

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.