

PRODUCT NAME: RETARDER HMIS CODES: H F R P
 PRODUCT CODE: C13104, C13102 2*2 0 X
 DOT CLASS: PAINT RELATED MATERIAL, 3, UN1263, PGI, III, LIMITED QUANTITY

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: Glitsa American
 ADDRESS: 327 S Kenyon, Seattle WA 98108
 EMERGENCY PHONE: Call Chemtrec 1-800-424-9300 (spill, leak, fire, accident)
 INFORMATION PHONE: 206-763-2855
 NAME OF PREPARER: Rudd Company, Inc.

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE	WEIGHT
		mm Hg @ TEMP	PERCENT
ETHYLENE GLYCOL MONOPROPYL ETHER	2807-30-9		100
ACGIH TLV: Not Est. OSHA PEL: Not Est. Other: 20 ppm (skin)			

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 301
 DENSITY: 7.64 lb/gl
 V.O.C.: 7.63 lb/gl 916 g/l (less water and exempt solvents)
 7.63 lb/gl 916 g/l (Emitted VOC)
 SOLIDS % BY WEIGHT: .
 VAPOR DENSITY: Heavier than air.
 EVAPORATION RATE: Moderate (compared to n-butyl acetate)
 SOLUBILITY IN WATER: Moderate
 APPEARANCE AND ODOR: Colored or opaque liquid, solvent odor.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 120 Deg. F METHOD USED: P-Marten
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.3 UPPER: 15.8
 EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES:

Evacuate all unnecessary personnel. Use full protective equipment, including self-contained breathing apparatus. Use water spray, preferably fog, to cool closed containers to prevent pressure build-up and possible explosion. Direct water stream is not recommended for oil base fires. Product may float and reignite on surface of water. Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or waterways.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Explosive air-vapor mixtures may form which are dangerous when exposed to heat or flame. Vapors are heavier than air and may travel along the ground, or be moved by ventilation, and ignited by pilot lights, stoves, heaters, electric motors, sparks, flame, smoking, static discharge or other ignition sources even at locations distant from material handling site if inadequately ventilated. Free falling streams of liquid may cause static electricity build-up and create fire hazard.

===== SECTION V - REACTIVITY DATA =====

STABILITY:

Stable

CONDITIONS TO AVOID:

High temperature and humidity, ignition sources and vapor build-up.

INCOMPATIBILITY (MATERIALS TO AVOID):

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Carbon Monoxide Carbon Dioxide Hydrocarbons

HAZARDOUS POLYMERIZATION:

Will not occur.

=== SECTION VI - HEALTH HAZARD DATA AND SYMPTOMS OF UNPROTECTED EXPOSURE ===

PRIMARY ROUTE(S) OF EXPOSURE: Inhalation, skin contact, ingestion.

INHALATION:

Vapors and mists may irritate nose, throat and lungs (burning, stinging, coughing). May cause headache, dizziness, nausea, weakness, shortness of breath and loss of coordination. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Exposure to extremely high vapor concentrations may cause unconsciousness and asphyxiation. Always wear a NIOSH approved respirator with functioning organic vapor cartridges and provide adequate ventilation at the jobsite during and after application. If formaldehyde concentrations are unknown, use formaldehyde specific cartridges.

EYE CONTACT:

Contact with liquid or vapors causes severe irritation (redness, watering, itching, stinging, blurred vision).

SKIN CONTACT:

Contact may cause severe irritation (dryness, itching, cracking, rash and swelling).

SKIN ABSORPTION:

May be absorbed through the skin in harmful amounts. Repeated and prolonged contact may have a cumulative effect. Symptoms may include headache, dizziness, nausea, weakness, loss of coordination.

SWALLOWING:

Causes nausea, vomiting and diarrhea.

CHRONIC EFFECTS FROM LONG TERM UNPROTECTED EXPOSURE:

Contains ingredients suspected of causing or known to cause damage to: kidneys, liver, blood cell abnormalities, Always wear appropriate respiratory, eye and skin protection during use. Ventilate well during and after application.

CARCINOGEN:

NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY UNPROTECTED EXPOSURE:

Respiratory tract irritation, nausea, eye disorders, skin disorders, sensitization to chemical substances.

===== SECTION VII - EMERGENCY AND FIRST AID PROCEDURES =====

INHALATION:

Remove from exposure to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Get medical attention immediately.

EYE CONTACT:

Immediately flush with plenty of water for 15 minutes, while lifting upper and lower eyelids. Get medical attention.

SKIN CONTACT:

Immediately wash with soap and water. Remove contaminated clothing and shoes. Wash or clean thoroughly before reuse. Get medical attention if irritation persists.

SWALLOWING:

DO NOT induce vomiting. Call Poison Control Center (1-800-222-1222) or physician immediately. Note: Aspiration of solvents may result in chemical pneumonia.

OTHER:

Have Material Safety Data Sheet available when calling Poison Control Center (1-800-222-1222) or physician; or when going to the emergency room.

===== SECTION VIII - SAFE HANDLING AND USE INFORMATION =====

RESPIRATORY PROTECTION:

Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's instructions for use.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. Provide the maximum ventilation jobsite conditions allow (including fans, open doors, windows or other appropriate means of ventilation), to prevent vapor build-up.

HAND PROTECTION:

Wear impermeable gloves to prevent skin contact. Consult safety equipment supplier for specific recommendations of construction materials.

EYE PROTECTION:

Wear chemical goggles designed to protect eyes against vapors, liquid splash and mists unless full facepiece respirator is worn. Note: Contact lenses may contribute to the severity of an eye injury and should not be worn when working with chemicals.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear protective clothing, including headcap, to avoid skin contact with liquid or overspray.

WORK/HYGIENIC PRACTICES:

Eye washes and safety showers are recommended in the workplace. Wash hands after using and before eating, drinking or using tobacco products. Thoroughly clean contaminated clothing and shoes before reuse. Periodically monitor exposure levels to hazardous ingredients listed in section II and review permissible limits.

===== SECTION IX - SPILL AND LEAK PROCEDURES =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate ignition sources and ventilate area. Evacuate all unnecessary personnel. Wear full protective equipment. Dike drains to prevent entering storm or sanitary sewers, rivers, streams or waterways. Contain spill and cover with inert absorbent material. Take up using non-sparking tools (aluminum, brass or copper) and place mixture into containers for disposal. Note: Some spills or releases may require special reporting to local, state or federal agencies.

WASTE DISPOSAL METHOD:

Waste material and empty containers must be disposed of in accordance with all local, state and federal environmental control regulations. Use only approved waste management facilities.

===== SECTION X - SPECIAL PRECAUTIONS =====

KEEP OUT OF REACH OF CHILDREN.**FOR INDUSTRIAL USE ONLY!****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Keep liquid and vapors away from heat, sparks and flame. Turn off or remove all sources of ignition. Use proper methods of ventilation to prevent vapor build-up. Avoid contact with hot metal surfaces. When pouring large volumes, avoid free fall of liquids in excess of a few inches to prevent static charge build-up. Avoid breathing vapors and sanding or grinding dusts. Avoid contact with eyes and skin. Do not take internally. Use adequate methods of ventilation, respiratory and personal protective equipment. Do not reuse, weld, drill or heat empty containers which may contain explosive vapors. Follow label warnings until thoroughly cleaned or sent for disposal. Do not remove or deface label. Do not transfer to unlabeled container.

OTHER CAUTIONS:

Keep container closed when not in use and during transit. Do not store above 120 deg. F (50 deg. C). Keep in upright position and protect container from damage. When storing large quantities or when specified by local building or fire codes, store in buildings or areas designed and protected for storage of products with this flammability rating. To avoid spontaneous combustion, soak soiled oily rags and waste in water filled metal containers.

===== SECTION XI - DISCLAIMER =====

M A T E R I A L S A F E T Y D A T A S H E E T

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