



MATERIAL SAFETY DATA SHEET

Date: August 25, 2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Metal Primer
Item Number: RG-400
Chemical Name: Universal Bonding Primer
Comparable Products: Unicoat Bonding Primer
Company Information: STS Coatings, Inc.
347 Hwy 289
Comfort, TX 78013
Emergency Phone: CHEMTREC 800-424-9300
General Information: 830-995-5177

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS NO.	EXPOSURE LIMITS	VAPOR PRESSURE		% by Weight
		TLV	mm Hg @ Temp		
Tetrachlorethylene*	127-18-4	50 PPM	18.0	68F	62.0

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

3. PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY (H₂O = 1): 0.84
EVAPORATION RATE: (Butyl Acetate=1) < 1
APPEARANCE: Gray semi-viscous liquid
BOILING POINT (F): 250°F @ 760 mmhg
VAPOR DENSITY: Heavier than air
COATING VOC g/l: 0
ODOR: solvent
SOLUBILITY IN WATER: Insoluble

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: none
FLAMMABLE LIMITS IN AIR BY VOLUME – LOWER: n/a
EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical.
METHOD USED: SETA
DOT CATEGORY: 6.1, UN1897, PGIII
UPPER: n/a

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No auto ignition temperature. Fire exposed drums should be cooled with stream of water.

5. REACTIVITY DATA

STABILITY: Stable.
CONDITIONS TO AVOID:
Avoid open flames, welding arcs, or other high temperature sources which include thermal decomposition.

INCOMPATIBILITY (MATERIALS TO AVOID)
Avoid strong acids and oxidizing materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Involvement in fire forms hydrogen chloride and small amounts of phosgene and chlorine.

HAZARDOUS POLYMERIZATION: Will not occur.

6. HEALTH HAZARDS IDENTIFICATION

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
In confined or poorly ventilated areas vapors can readily accumulate and cause unconsciousness and death. Dizziness may occur at 200ppm; progressively higher levels may also cause nasal irritation, nausea, in-



coordination, drunkenness; and over 1000ppm, unconsciousness and death. A single brief (minutes) inhalation exposure to levels above 6000ppm may be immediately dangerous to life. Based on structural analogy and/or equivocal data in animals, excessive exposure may potentially increase sensitivity to epinephrine and increase myocardial irritability (irregular heartbeats.) Alcohol consumed before or after exposure may increase adverse effects.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Short, single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even burn. Repeated contact may cause drying or flaking of skin. Eyes: May cause pain, and slight temporary irritation. Vapors may irritate the eyes at about 100ppm.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated skin contact with this product may result in irritation and dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Single dose oral toxicity is low. If aspirated (liquid enters the lung), may be rapidly absorbed through the lungs and result in injury to other body systems.

NOTE TO PHYSICIAN:

Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. If burn is present, treat as any thermal burn, after decontamination. Exposure may increase "myocardial irritability". Do not administer sympathomimetic drugs unless absolutely necessary. No specific antidote. Supportive care. Treatment based on judgment of physician in response to reactions of patient.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Move individual away from exposure and into fresh air. Immediately flush with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. Get medical attention if irritation persists.

SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing and laundry before reuse. If irritation persists, seek medical attention.

INHALATION: Move individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet and get medical attention.

INGESTED: DO NOT INDUCE VOMITING! If spontaneous vomiting occurs, be sure to keep victim's head below hips to avoid aspiration of vomit into lungs, monitor for breathing difficulty. Get immediate medical attention.

7. HANDLING AND STORAGE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Small spill: Mop up, wipe up, or soak up immediately. Remove to out doors.

Large spill: Evacuate area. Contain liquid; transfer to closed metal containers. Keep out of water supply.

WASTE DISPOSAL METHOD

Dispose in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP AWAY FROM CHILDREN. FOR USE BY TRAINED PERSONNEL ONLY. Handle with reasonable care and caution. Avoid breathing vapors. Vapors of this product are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. Do not enter these areas where vapors of this product are suspected unless special breathing apparatus is used and an observer is present for assistance.

OTHER PRECAUTIONS

Empty containers retain product residue which should be treated in accordance with all precautions on this data sheet. Keep Container closed and up-right during storage.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Use safety glasses with unperforated sideshields.

SKIN PROTECTION: Use chemical-resistant clothing or apron and gloves when there could be direct contact.

RESPIRATORY PROTECTION:

If TLV is exceeded, NIOSH/MSHA air respirator advised. In confined or poorly ventilated areas, use an approved positive pressure self-contained air breathing apparatus.

VENTILATION: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit. Lethal concentrations may exist in areas with poor ventilation.

WORK/HYGIENIC PRACTICES

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

9. REGULATORY INFORMATION

SARA HAZARD NOTIFICATION:

SARA Title III , Section 313 Components:
Tetrachloroethylene CAS: 127-18-4

CA Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

TSCA CERTIFICATION – All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.

DISCLAIMER

The information and recommendations contained herein are to the best of STS Coatings, Inc. knowledge and belief, accurate and reliable as of the date issued. STS Coatings, Inc. Does not warrant or guarantee their accuracy or reliability, and STS Coatings, Inc. shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users responsibility to make certain that it is relying up on the most recent, updated, information and recommendations available from STS Coatings, Inc.

The Environmental Information included as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings, have been included by STS Coatings, Inc. in order to provide additional health and hazard classification information. The ratings recommended are based up on the criteria supplied by the developers of these rating systems, together with STS Coatings, Inc.'s interpretation of the available data.

For Other Product Information Contact:

STS Coatings, Inc., 347 Hwy 289, Comfort, TX 78013
PH. 830-995-5177 FAX 830-995-5705
rgt@roofguardiantech.com