

MATERIAL SAFETY DATA SHEET

Business Hours 8:00 am - 5:00 pm
 Emergency Telephone Number
 972/442-6545

HARDCAST PRODUCTS
 CARLISLE COATINGS AND WATERPROOFING, INC.
 Subsidiary of Carlisle Corporation
 900 Hensley Lane Wylie, Texas 75098

FOR TRANSPORTATION EMERGENCIES
 CALL CHEMTREC 800/424-9300

SECTION I

| | | |
|---|-------------------------------------|--|
| PRODUCT NAME & SYNONYMS IRON GRIP 601 | CHEMICAL FAMILY Synthetic Resins | HMIS RATINGS HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 |
| PRODUCT USE Duct Sealant | FORMULA Mixture | |

SECTION IIA - HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENTS | CAS # | % | OSHA PEL | LD50 of | LC50 of |
|-----------------------|-------|---|--|------------|------------|
| NONE | | | TWA STEL Ceiling | Ingredient | Ingredient |

N/E=Not established N/A=Not applicable

SECTION IIB - ADDITIONAL INGREDIENTS (> 3%)

| | | | | |
|--------------------|-------|-------------|----------------------|------------------------|
| Hydrocarbon Resins | CAS # | Proprietary | Chlorinated paraffin | CAS # 63449-39-8 Blend |
| Water | CAS # | 7732-18-5 | Hydrated alumina | CAS # 21645-51-2 |
| Calcium Carbonate | CAS # | 1317-65-3 | P(BA/VAC) | CAS # 25067-01-0 |

SECTION III - PHYSICAL DATA

| | | | |
|-----------------------------------|--------------------------------|------------------------------------|--|
| SPECIFIC GRAVITY 1.4 | BOILING POINT 212°F (100°C) | % VOLATILES BY WT 30% | VAPOR DENSITY (Air = 1) Not Established |
| VAPOR PRESSURE Not Established | FREEZING POINT 32°F (0°C) | SOLUBILITY IN WATER Appreciable | EVAPORATION RATE Not Established |
| pH 9.0 - 10.0 | PHYSICAL STATE Mastic | ODOR THRESHOLD Not Established | VOC 41 gms/liter (water excluded) |

ODOR & APPEARANCE

Gray gunnable sealant with characteristic odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

| | | | |
|---|--|---|---|
| FLAMMABILITY Not Flammable | IF YES, UNDER WHAT CONDITIONS | | |
| FLASHPOINT Closed Cup: No flash to boiling | AUTOIGNITION TEMPERATURE Not Applicable | LOWER FLAMMABLE LIMIT Not Applicable | UPPER FLAMMABLE LIMIT Not Applicable |

HAZARDOUS COMBUSTION PRODUCTS

Combustion may yield normal combustion byproducts: carbon dioxide, carbon monoxide, or nitrous oxides.

EXTINGUISHING MEDIA

None needed for liquid. For dry film, use water, foam, Carbon dioxide, or dry chemical

SPECIAL FIREFIGHTING PROCEDURES

Follow normal fire fighting procedures. Firefighters should wear self-contained breathing apparatus, especially in enclosed areas. Cool drums and minimize vapor with water spray.

UNUSUAL FIRE & EXPLOSION HAZARDS

This product is not sensitive to physical shock or static discharge. Emulsion will not burn. Exposure of closed container to temperatures above the boiling point could cause pressure buildup and container rupture. Dry mastic is capable of burning.

SECTION V - REACTIVITY DATA

| | |
|--|---|
| This product is chemically stable. Hazardous polymerization will not occur. | CONDITIONS TO AVOID Freezing or boiling. |
| INCOMPATIBILITY Materials that react with water such as concentrated acids, calcium carbide, sodium. | |

DECOMPOSITION PRODUCTS

Combustion may yield carbon dioxide, carbon monoxide, or nitrous oxides.

SECTION VI - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Due to concentration, ingestion, skin contact, or inhalation of sufficient quantities to induce symptoms unlikely.
 Eye Contact: This material may cause eye irritation. Direct contact with liquid may cause stinging, tearing, redness.
 Skin Contact: This material is not expected to be a skin irritant. Skin absorption is unlikely. If left on skin, a film will form. Based on method of removal, irritation may result.
 Ingestion of sufficient quantities to induce symptoms unlikely.
 Ingestion: Low degree of oral toxicity. Ingestion of excess quantities may cause irritation of GI tract.

Inhalation of sufficient quantities to induce symptoms unlikely.

Inhalation: Breathing high concentrations of vapors may cause nausea & irritation of nose, throat, & respiratory tract.

Respiratory symptoms associated with preexisting lung disorders may be aggravated by exposure to this mat'l.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

| | | | |
|-------------------------------------|---|---|------------------------------------|
| EXPOSURE LIMITS None established | SENSITIZATION TO PRODUCT May cause skin sensitization in some individuals. | IRRITANCY OF PRODUCT May irritate skin, eyes, and respiratory tract. | SYNERGISTIC PRODUCTS None known |
| CARCINOGENICITY No evidence | MUTAGENICITY & TUMORIGENICITY No evidence | REPRODUCTIVE TOXICITY No evidence | TERATOGENICITY No evidence |

SECTION VII - PREVENTIVE MEASURES

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|--|--|
| EYE PROTECTION Safety Glasses, Goggles, Face Shield recommended | GLOVES Hycron, neoprene, or nitrile gloves recommended. |
| RESPIRATOR No special protection necessary | FOOTWEAR No special protection necessary |

OTHER
Avoid unnecessary contact with this and any other chemical. Wash thoroughly after handling all chemicals.
No special protection necessary. Source of clean water should be available for flushing eyes and washing skin.

ENGINEERING CONTROLS
No special control measures necessary under normal conditions of use.

LEAK OR SPILL PROCEDURE
Contain & remove with inert absorbent material.
Prevent spills, runoff, and washings from entering public sewers and open bodies of water.

WASTE DISPOSAL
Dispose of in accordance with all local, state, and federal regulations.

HANDLING PROCEDURES & EQUIPMENT
Normal use condition doesn't produce respirable Silica. However, sanding, grinding and burning might release respirable Silica.
Keep out of reach of children. Launder contaminated clothing.
Wash with soap and water after use, especially before eating or drinking.

STORAGE REQUIREMENTS
Store in a cool, dry location away from heat. Keep containers tightly closed and store with adequate ventilation.
Do not pressurize, cut weld or grind the containers or empty containers which may contain residual product & vapors.

SPECIAL SHIPPING INFORMATION
Avoid freezing & subjecting this product to temperature extremes. Class 60 Item Number 4620 Sub 5

SECTION VIII - FIRST AID MEASURES

EYE CONTACT
Immediately flush with running water for at least 15 minutes. Get medical attention if irritation persists.

SKIN CONTACT
Wash exposed area with soap and water. Get medical attention if irritation persists.

INHALATION
Remove to fresh air. If symptoms persist, seek medical attention. If necessary, give artificial respiration.

INGESTION
Do not induce vomiting. Get medical attention.

SECTION IX - REGULATORY INFORMATION

This product doesn't contain the following toxic chemicals subject to the reporting requirements of SARA 313 of the Emergency Planning & Community Right-to-Know Act of 1986 & of 40CFR 372.

SECTION X - PREPARATION INFORMATION

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|----------------------------|---------------------|-------------------|--------------------------------------|
| PREPARED BY R & D Group | DATE 6 June 2002 | REVISION # #13 | SUPERSEDES ALL PREVIOUS PUBLICATIONS |
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