

Material Safety Data Sheet

0909, 0912 Triple Expanding Foam & 0913, 0920 Minimal Expanding Foam

MSDS No. 0113 Rev. 6

Emergency Phone No.
800- 535-5053 - INFOTRAC

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

| | |
|--|--|
| PRODUCT NAME | Foam & Fill Minimal & Triple Expanding Polyurethane Foams – Aerosol Cans |
| MANUFACTURER'S NAME & TELEPHONE NUMBER | Red Devil, Inc. |
| STREET ADDRESS | 4175 Webb Street |
| CITY / STATE / ZIP | Pryor, Oklahoma 74361 |

SECTION 2 – COMPOSITION / HAZARDOUS INGREDIENTS

| | % | LD50 | LC50 | UNITS |
|--|-----------|------|------|-------|
| PRODUCT CONSISTS OF: | | | | |
| Liquefied Petroleum Gas Blend (mixture) | 10 to 30 | NA | NA | |
| 4,4 – Diphenylmethane Diisocyanate (MDI) (101-68-8) | 5 to 10 | NA | NA | |
| Higher Oligomers of MDI (Polymeric MDI) (9016-87-9) | 5 to 10 | NA | NA | |
| Urethane Pre-polymer Blend (Non-Hazardous Proprietary Blend) (mixture) | 60 to 100 | NA | NA | |
| Non-hazardous ingredients* | 60 to 100 | NA | NA | |
| *Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). Calculated VOC: < 20%/wt. CARB Compliance: Exempt. Prop 65 Ingredients: None. | | | | |

SECTION 3 – HAZARDS IDENTIFICATION

| | | | | | |
|---|---|---|---|--|---|
| PRIMARY ROUTE(S) OF ENTRY | <input checked="" type="checkbox"/> Skin Contact | <input checked="" type="checkbox"/> Skin Absorption | <input checked="" type="checkbox"/> Eye Contact | <input checked="" type="checkbox"/> Inhalation | <input checked="" type="checkbox"/> Ingestion |
| EMERGENCY OVERVIEW | Physical Hazards: Danger! Extremely flammable. Foam has strong adhesive-like characteristics & will adhere aggressively to skin & other surfaces. Primary adverse health effects are related to Polymeric Isocyanate (MDI) & to a lesser degree, the Liquefied Petroleum Gas. | | | | |
| EFFECTS OF OVEREXPOSURE | Inhalation: May irritate mucous membranes. Extensive overexposure can lead to respiratory symptoms such as pulmonary edema. Overexposure to liquefied petroleum gas may cause lightheadedness or headaches. Eyes: May be irritating to eyes. Contact can cause physical damage. Skin: May cause irritation, redness & swelling. Prolonged or repeated exposure may result in sensitization. Ingestion: May cause irritation of mucous membranes in mouth & digestive tract. | | | | |
| MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE | None known. | | | | |

SECTION 4 – FIRST AID MEASURES

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|--------------|--|
| SKIN CONTACT | Use rag to remove excess foam. Remove contaminated clothing. Use of a solvent such as Acetone or Mineral Spirits may help remove uncured foam from clothing & other surfaces (avoid eye contact). Cured foam may be physically removed by persistent washing w/ soap & water. If irritation develops, use mild skin cream. If irritation persists, seek medical attention. |
| EYE CONTACT | Flush w/ clean water for @ least 15 minutes & seek medical attention. |
| INHALATION | If breathing difficulty experienced, move to fresh air. If necessary, provide oxygen or artificial respiration by trained personnel & seek medical attention. |
| INGESTION | Drink 1 to 3 glasses of water & seek medical attention. Never give anything orally to an unconscious person. |

SECTION 5 – FIRE FIGHTING MEASURES

| | | | |
|-------------------------------------|--|-------------------------------------|----|
| FLAMMABLE | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| EXTINGUISHING MEDIA | Dry chemical, carbon dioxide, Halon 1211, chemical foam or water spray. Water contamination will produce carbon dioxide. | | |
| FLASHPOINT (°F) & METHOD | - 156F, estimated based on liquefied petroleum gas | UPPER EXPLOSIVE LIMIT (% BY VOLUME) | NE |
| LOWER EXPLOSIVE LIMIT (% BY VOLUME) | NE | AUTOIGNITION TEMPERATURE (°F) | NE |
| UNUSUAL FIRE & EXPLOSION HAZARDS | High temperature will raise pressure in containers, which may lead to rupturing. Contents could be sensitive to mechanical impact or static discharge. Vapors released during & immediately after dispensing may ignite explosively if proper ventilation is not employed. | | |
| SPECIAL FIREFIGHTING PROCEDURES | Cured foam is organic & therefore will burn in the presence of sufficient heat, oxygen & an ignition source. Hazards associated w/ burning foam are similar to burning of other organic materials (wood, paper, cotton, etc) & precautions against exposure should be taken accordingly. | | |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

| | | | |
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| PROCEDURES | PPE should include impervious gloves, protective eye wear & suitable protective clothing. Uncured foam is very sticky; carefully remove by scraping up, then immediately remove residue w/ a rag & solvent such as polyurethane cleaner, mineral spirits or acetone (nail polish remover). Once cured, product can only be removed physically by scraping, buffing, etc. | | |
|------------|--|--|--|

SECTION 7 – HANDLING & STORAGE

| | | | |
|---------------------------------|---|--|--|
| HANDLING PROCEDURES & EQUIPMENT | Protect containers from physical abuse. | | |
| STORAGE REQUIREMENTS | Store in a cool, dry place. Ideal storage temperature is 60 to 80F. Storage above 90F will shorten shelf life. Storage below 55F may affect foam quality if not warmed before using. Protect from freezin | | |

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

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|-------------------|--|--|--|
| RESPIRATORY | Provide adequate ventilation. If vapor levels are expected to exceed guidelines, use NIOSH approved positive pressure supplied air respirator. | | |
| EYEWEAR | Protective eye wear. | | |
| CLOTHING / GLOVES | Impervious gloves & suitable work clothes. | | |
| HYGENIC PRACTICES | Exercise good personal hygiene, wash thoroughly after each use. | | |

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------|---|-----------------------|--|
| PHYSICAL STATE | Viscous liquid – foams w/ application | ODOR & APPEARANCE | Slight hydrocarbon odor during application/curing. |
| SPECIFIC GRAVITY | Approximately 1.1 | VAPOR DENSITY (AIR=1) | NE |
| EVAPORATION RATE | NA | BOILING RANGE (°F) | NE |
| pH | NE | SOLUBILITY IN WATER | Insoluble; reacts slowly w/ water during cure, liberating traces of CO2. |
| VAPOR PRESSURE (MM Hg) | In can > 50 psig/345 kPa; after release from can vapor pressure very low. | %/WT VOLATILE (TNV) | NE |

SECTION 10 – STABILITY AND REACTIVITY

| | | | |
|---|--|--|--|
| STABILITY | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Stable w/ storage & handling as directed. | | |
| INCOMPATIBILITY | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Alcohols, strong bases or amines & metal compounds (small particle metal catalysts). | | |
| CONDITIONS TO AVOID | Temperatures above 120F. | | |
| HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS | Toxic decomposition by-products: CO, CO2, NO & HCN. | | |

SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY

ACGIH Not listed as a carcinogen.

OSHA Not listed as a carcinogen.

IARC Not listed as a carcinogen.

NTP Not listed as a carcinogen.

DATA WITH POSSIBLE RELEVANCE TO HUMANS NE

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY NE

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Dispose of plastic waste (foam plastic) in accordance w/ Local, State & Federal requirements. Before disposing of containers, relieve remaining foam & pressure. Allow product to fully cure before disposing. Never discard in a liquid state.

EPA WASTE CODE IF DISCARDED (40CFR Sec.261)

SECTION 14 – TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION Containers 1 liter or less: Ground: Consumer Commodity ORM-D (On shipper carton), Consumer Commodity Polyurethane Foam Sealant HC (On shipping document) Air: UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label), Water: UN1950 Aerosols "LTD QTY" 2. Note: Emergency Response Guide Numbers – Consumer Commodity #171, for Aerosols & Compressed Gas #126. ECCN Number: EAR99.

SECTION 15 – REGULATORY INFORMATION

CERCLA – SARA HAZARD CATEGORY SARA Title III: Diphenylmethane Diisocyanate (101-68-8)

U.S. STATE REGS See Section 16.

SARA 313 NE

TSCA & DSL All ingredients listed on TSCA Inventory as well as Canadian Domestic Substances List.

SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND

NFPA: Fire: 2, Health: 2, Reactivity: 1. **HMIS:** Flammability: 2, Health: 2, Reactivity: 1. Product is a liquid urethane prepolymer mixture that is packaged under pressure (Flammable Compressed Gas). Containers should not be heated above 120F, to avoid excessive pressure build-up. None of the compounds in this product are listed by IARC, NTP, OSHA or ACGIH as a carcinogen. **Prop. 65:** Based on information currently available, product is not known to contain detectable amounts of any chemicals currently listed under California Proposition 65. ECCN Number: EAR99. INTERNATIONAL EMERGENCY NUMBER: 352-323-3500 - INFOTRAC

LEGEND: NA – Not Applicable, NE – Not Established, UN – Unavailable, VOC – Volatile Organic Compound, PEL – Permissible Exposure Limit, TLV – Threshold Limit Value, STEL – Short Term Exposure Limit, MSDS – Material Safety Data Sheet, ACGIH – American Conference of Governmental Industrial Hygienists, SARA – Superfund Amendments & Reauthorization Act of 1986, OSHA – Occupational Safety & Health Administration, HMIS – Hazardous Materials Identification System, NTP – National Toxicology Program, CEIL – Ceiling Exposure Limit, CASRN (CAS Number) – Chemical Abstracts Service Registry Number, TSCA – Toxic Substances Control Act, ECCN Number – Export Control Classification Number.

Reviewed By Larry Brandon

VP Technology & GM

March 13, 2012

NAME

TITLE

DATE

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