# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Radiator Stop-Leak - RSL/2

Manufactured by:
Justice Brothers, Inc.
2734 East Huntington Drive
Duarte, CA 91010

Emergency Health Information: (800)424-9300
Emergency Spill Information: (800)424-9300
CHEMTREC, U.S.A.

Hazard Ratings:

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| NFPA Code: | Health: 3 | Fire: 1 | Reactivity: 0 |
| HMIS Code: | Health: 3 | Fire: 3 | Reactivity: 1 |

## SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Components:
Mineral oil (CAS 8012-95-1) ACGIH TLV5 mg per cubic meter, STEL 10 mg per cubic meter.
Solvent refined, hydrotreated middle distillate (CAS 64742-46-7) OSHA PEL/TWA 5 mg/M3; ACGIH TLV/TWA 5 mg/M3, TLV/STEL 10 mg/M3.
Tetrasodium ethylenediaminetetraacetate, tetrahydrate (CAS 64-02-8) no exposure limits established.
Aryl phosphoric acid ester (CAS 7664-3-2) OSHA TWA 1 mg/M3, PEL 3 mg/M3
Dowicil (CAS 4080-31-3) Recommended workplace exposure limit: 1 mg/M3
Boric acid (CAS 10043-35-3) OSHA PEL 15 mg/M3; ACGIH TLV 10 mg/M3
Dicyclohexylamine (CAS 101-83-7) STEL 20 ppm.
Solvent dewaxed distillate, heavy paraffin (CAS 64742-65-0) ACGIH TWA 5 mg/M3, STEL 10 mg/M3; OSHA TWA 5 mg/M3.

## SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >200°F
Vapor Pressure: 12 mm Hg
Vapor Density: 5
Solubility: <20% in water
Specific Gravity: 1.05 @ 60°F
% Volatile: >50
Evaporation Rate: slower (n-butyl acetate = 1)
Appearance and Odor: liquid with slight ammonia odor

## SECTION 3 - FIRE AND EXPLOSION DATA

Flash Point: 208°F (P - M)
LEL: not established UEL: not established
Extinguisher Media: Dry Chemical, carbon dioxide, Halon, foam or water spray is recommended.

Special Fire Fighting Procedures: This material is combustible.
When heated above the flash point, this material will release flammable vapors which when exposed to an ignition source can burn in the open or be explosive in confined spaces. Mists or sprays may be flammable at temperatures below the normal flash point.

## SECTION 4 - REACTIVITY AND STABILITY

Stability: Stable under normal conditions of storage and handling.
Materials to Avoid: Avoid strong acids or bases; selected amines; chlorine, fluorine and other strong oxidizers.
Hazardous Decomposition Products: Polymerization will not occur. Combustion may yield carbon monoxide and/or carbon dioxide. Do not breathe smoke or fumes. Wear appropriate protective equipment.

## SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:
Inhalation: May cause irritation of the nose and throat, signs of nervous system depression (e.g. headache, drowsiness), if high concentrations are inhaled. If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get medical attention.
Eye Contact: Direct contact with this liquid or exposure to vapors or mists may cause stinging, tearing, redness and swelling. In case of eye contact, flush eyes with plenty of water. Contact a physician.
Skin: Can cause skin irritation on prolonged or repeated contact. Wash exposed skin with soap and water. Get prompt medical attention if irritation develops.
Ingestion: If this material is swallowed, do not induce vomiting as it may enter lungs. Get large amounts of water or milk, if available. Keep person warm, quiet and get medical attention.

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY: If airborne concentrations exceed established exposure limits (See Section 1), use a supplied air respirator. Do not use a chemical cartridge respirator.

GLOVES: The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation.

EYE PROTECTION: Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

OTHER PROTECTIVE EQUIPMENT: It is suggested that a source of clean water be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be taken if Material is Spilled or Released:

Combustible Material. Keep all sources of ignition and heat away from spill/release. Stay upwind and isolate hazard area. Wear protective equipment as conditions warrant. Prevent spilled material from entering sewers, storm drains and natural waterways. Spilled material may be absorbed into an appropriate absorbent. Notify fire authorities and appropriate agencies.

Waste Disposal Methods:

Dispose of product in accordance with local, county, state and federal regulations.

Precautions to be Taken in Handling and Storage:

This material is combustible and may be ignited by heat, flame or other sources of ignition. Vapor/air explosion hazard indoors/outdoors or in sewers. If container is not properly cooled, it may explode in the heat of a fire.

Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 5). Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors and cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.

NOTE: The information contained in this Material Safety Data Sheet is furnished without warranty of any kind, expressed or implied. Information in this Data Sheet has been assembled by the Manufacturer based on its own studies and on the work of others and is believed to be correct as of the date issued. However, no warranty of any kind is expressed or implied as to the accuracy, completeness, or adequacy of the information obtained herein. The Manufacturer shall not be liable, regardless of fault, to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the adequacy, completeness, or adequacy of the information obtained herein. It is intended to assist in the normal safe usage of the product.