# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

**Revision Date** 05-Dec-2024 **Version** 1

## 1. Identification

**Product identifier**

**Product Name** Heavy Duty High Temperature Muffler Repair Kit

**Other means of identification**

**Product Code** 80337

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Automotive Care Product

**Restrictions on use** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer Address**
ITW Permatex, Inc.
6875 Parkland Blvd.
Solon, Ohio 44139 USA
Telephone: 1-87-Permatex
(866) 732-9502

**May Also Be Distributed by:**
ITW Permatex Canada
101-2360 Bristol Circle
Oakville, ON Canada L6H 6M5
Telephone: (800) 924-6994

**E-mail address** mail@permatex.com

**Emergency telephone number**

**24 Hour Emergency Phone Number** Chem-Tel: 800-255-3924
International Emergency:
00+1+ 813-248-0585
Contract Number: MIS0003453

**24-hour emergency phone number** No information available

## 2. Hazard(s) identification

**Classification**

| | |
|---|---|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |

**Label elements**

**Contains BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN**

**Warning**

**Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling.
Avoid breathing dust, fume, gas, mist, vapors and spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection and face protection.
**Precautionary Statements - Response**
Specific treatment (see supplemental first aid instructions on this label).
**Eyes**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice and attention.
**Skin**
IF ON SKIN: Wash with plenty of water and soap.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice and attention.

**Precautionary Statements - Disposal**
Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

62.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
98.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
98.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Other Information**
May be harmful in contact with skin. Toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name | CAS No. | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---|---|---|---|---|
| FIBERGLASS YARN | 65997-17-3 | 45-70% | - | - |
| BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN | 25068-38-6 | 15-40% | - | - |
| METHYL ETHYL KETONE (BUTANONE) | 78-93-3 | 1-5% | - | - |

## 4. First-aid measures

**Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

**Effects of Exposure** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Small Fire** In case of fire, use water spray, foam, dry chemical, or CO2.
**Large Fire** In case of fire, use water spray, foam, dry chemical, or CO2.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by skin contact.

**Hazardous combustion products** No information available.

**Explosion data**
**Sensitivity to mechanical impact** None.
**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

**Control Parameters**
**Exposure Limits**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| FIBERGLASS YARN<br>65997-17-3 | TWA: 1 fiber/cm3 respirable fibers length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination<br>TWA: 5 mg/m³ inhalable particulate matter | - | - |
| METHYL ETHYL KETONE<br>(BUTANONE)<br>78-93-3 | TWA: 75 ppm<br>STEL: 150 ppm<br>pSk | TWA: 200 ppm<br>TWA: 590 mg/m³<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 590 mg/m³<br>(vacated) STEL: 300 ppm<br>(vacated) STEL: 885 mg/m³ | TWA: 200 ppm;<br>TWA: 590 mg/m³;<br>STEL: 300 ppm<br>STEL: 885 mg/m³<br>IDLH: 3000 ppm |

| Chemical name | Alberta | British Columbia | Ontario | Quebec |
|---|---|---|---|---|
| FIBERGLASS YARN<br>65997-17-3 | TWA: 5 mg/m³; total particulate<br>TWA: 1 fibre/cm3; | TWA: 1 fibre/cm3;<br>TWA: 5 mg/m³; inhalable | TWA: 1 fibre/cm3; respirable<br>TWA: 5 mg/m³; inhalable fraction | TWAEV: 1 fibre/cm3; respirable |
| METHYL ETHYL KETONE<br>(BUTANONE)<br>78-93-3 | TWA: 200 ppm;<br>TWA: 590 mg/m³;<br>STEL: 300 ppm;<br>STEL: 885 mg/m³; | TWA: 50 ppm;<br>STEL: 100 ppm;<br>Adverse reproductive effect<br>Sk | TWA: 200 ppm;<br>STEL: 300 ppm; | TWAEV: 50 ppm;<br>TWAEV: 150 mg/m³;<br>STEV: 100 ppm;<br>STEV: 300 mg/m³; |

| Chemical name | Manitoba | New Brunswick | Newfoundland and Labrador | Nova Scotia |
|---|---|---|---|---|
| METHYL ETHYL KETONE (BUTANONE) | TWA: 75 ppm; STEL: 150 ppm; pSk | TWA: 200 ppm; STEL: 300 ppm; | TWA: 75 ppm; STEL: 150 ppm; pSk | TWA: 75 ppm; STEL: 150 ppm; pSk |

| Chemical name | Nunavut | Prince Edward Island | Saskatchewan | Yukon |
|---|---|---|---|---|
| FIBERGLASS YARN | | | | TWA: 30 mppcf; dust or fibrous<br>TWA: 10 mg/m³; dust or fibrous |
| METHYL ETHYL KETONE (BUTANONE) | TWA: 200 ppm; STEL: 300 ppm; | TWA: 75 ppm; STEL: 150 ppm; | TWA: 200 ppm; STEL: 300 ppm; | TWA: 200 ppm; TWA: 590 mg/m³; STEL: 250 ppm; STEL: 740 mg/m³; |

**Biological occupational exposure limits**

| Chemical name | ACGIH |
|---|---|
| METHYL ETHYL KETONE (BUTANONE)<br>78-93-3 | 2 mg/L - urine (MEK) - end of shift |

**Appropriate engineering controls**

**Engineering controls** Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use appropriate respiratory protection. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

**Thermal hazards** No information available.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Physical state** Solid
**Appearance** No information available
**Color** White
**Odor** No information available
**Odor threshold** No information available

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | No data available | |
| **Melting point / freezing point** | No data available | |
| **Boiling point / boiling range** | No data available | |
| **Flash point** | No data available | |
| **Evaporation rate** | Not applicable | |
| **Flammability (solid, gas)** | No data available | |
| **Flammability Limit in Air** | | |
| **Upper flammability limit:** | No data available | |
| **Lower flammability limit:** | No data available | |
| **Vapor pressure** | No data available | |
| **Vapor density** | No data available | |
| **Relative density** | No data available | |
| **Water solubility** | No Data Available | |
| **Solubility(ies)** | No data available | |
| **Partition coefficient** | No data available | |
| **Autoignition temperature** | No data available | |
| **Decomposition temperature** | No data available | |
| **Kinematic viscosity** | No data available | |
| **Dynamic viscosity** | No data available | |
| **Particle characteristics** | | |
| **Particle Size** | No data available | |
| **Particle Size Distribution** | No data available | |

| Other information | |
|---|---|
| **Explosive properties** | No information available |
| **Oxidizing properties** | No information available |
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **VOC content** | No information available |
| **Density** | No information available |
| **Bulk density** | No information available |

## 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerization** No information available.

**Conditions to avoid** None known based on information supplied.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous decomposition products** Carbon oxides. Ketones and their derivatives. Hydrogen fluoride.

## 11. Toxicological information

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Acute toxicity** .

**Numerical measures of toxicity**

**The following ATE values have been calculated for the mixture**

| | |
|---|---|
| **ATEmix (oral)** | 9,968.10 mg/kg |
| **ATEmix (dermal)** | 5,000.00 mg/kg |
| **ATEmix (inhalation-gas)** | 99,999.00 ppm |
| **ATEmix (inhalation-vapor)** | 34.5018 mg/L |
| **ATEmix (inhalation-dust/mist)** | 99,999.00 mg/L |

62.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
98.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
98.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6 | = 11400 mg/kg ( Rat ) | - | - |
| METHYL ETHYL KETONE (BUTANONE) 78-93-3 | = 2483 mg/kg ( Rat ) | = 5000 mg/kg ( Rabbit ) | = 11700 ppm ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| FIBERGLASS YARN 65997-17-3 | A4 - Not Classifiable as a Human Carcinogen | Group 3 - Unclassifiable as to carcinogenicity in humans | - | - |

**Legend**

**IARC (International Agency for Research on Cancer)**
Group 3 - Not classifiable as to carcinogenicity in humans

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| METHYL ETHYL KETONE (BUTANONE)<br>78-93-3 | - | LC50: 3130 - 3320mg/L (96h, Pimephales promelas) | - | EC50: >520mg/L (48h, Daphnia magna)<br>EC50: =5091mg/L (48h, Daphnia magna)<br>EC50: 4025 - 6440mg/L (48h, Daphnia magna) |

**Persistence and degradability** No information available.

**Bioaccumulative potential**

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| METHYL ETHYL KETONE (BUTANONE)<br>78-93-3 | 0.3 |

**Other adverse effects** No information available.

## 13. Disposal considerations

**Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**US EPA Waste Number** Waste designations and classifications should be determined by the end user based on the application for which the product was used.

## 14. Transport information

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**IATA**

| | |
|---|---|
| **UN number or ID number** | UN3077 |
| **UN proper shipping name** | Environmentally hazardous substance, solid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **ERG Code** | 9L |
| **Special Provisions** | A97, A158, A179, A197, A215 |
| **Description** | UN3077, Environmentally hazardous substance, solid, n.o.s.(BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN), 9, III, Limited Quantity |

**IMDG**

| | |
|---|---|
| **UN number or ID number** | UN3077 |
| **UN proper shipping name** | Environmentally hazardous substance, solid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **EmS-No.** | F-A, S-F |
| **Special Provisions** | 274, 335, 375, 966, 967, 969 |
| **Description** | UN3077, Environmentally hazardous substance, solid, n.o.s.(BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN), 9, III, Marine pollutant, Limited Quantity |

## 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL/NDSL** | Complies |
| **EINECS/ELINCS** | Complies |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECI** | Complies |
| **PICCS** | Complies |
| **AICS** | Complies |
| **NZIoC** | Not Determined |

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing Chemicals Inventory
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances
**NZIoC** - New Zealand Inventory of Chemicals

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ) |
|---|---|---|---|
| METHYL ETHYL KETONE (BUTANONE) 78-93-3 | 5000 lb / kg (final RQ) | - | RQ 5000 lb final RQ RQ 2270 kg final RQ |

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| METHYL ETHYL KETONE (BUTANONE) 78-93-3 | X | X | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. Other information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NFPA** | **Health hazards** 2 | **Flammability** 0 | **Instability** 0 | **Special hazards** - |
| **HMIS** | **Health hazards** 2 | **Flammability** 0 | **Physical hazards** 0 | **Personal protection** X |

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| + | Sensitizers | | |

**Key literature references and sources for data used to compile the SDS**
U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)

U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

**Revision Date** 05-Dec-2024

**Revision Note** No information available.

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**