

Revision Date 20-Oct-2016

SAFETY DATA SHEET

Version 3

| | 1. IDENTIFICATION | |
|---------------------------------------|----------------------------------|--|
| Product identifier Product Name | WATER PUMP & THERMOSTAT HOUSING | RTV .5 OZ |
| | | |
| Other means of identification | | |
| Product Code | 22071 | |
| Synonyms | None | |
| Recommended use of the chemical | and restrictions on use | |
| Recommended Use | Sealant | |
| Uses advised against | No information available | |
| Details of the supplier of the safety | data sheet | |
| Manufacturer Address | Manufactured and Distributed by: | May Also Be Distributed by: |
| ITW Permatex | ITW Permatex | ITW Permatex Canada |
| 6875 Parkland Blvd. | 6875 Parkland Blvd. | 35 Brownridge Road, Unit 1 |
| Solon, OH 44139 USA | Solon, OH 44139 USA | Halton Hills, ON Canada L7G 0C6 Telephone: (800) 924-6994 |
| Company Phone Number | 1-87-Permatex | |
| ····· | (877) 376-2839 | |
| 24 Hour Emergency Phone Number | | |
| 0, | International Emergency: | |
| | 00+1+ 813-248-0585 | |
| | Contract Number: MIS0003453 | |
| E-mail address | mail@permatex.com | |
| | 2. HAZARDS IDENTIFICATION | |

1. IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Label elements

Warning

Emergency Overview

Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer



Physical state Paste

Odor Mild

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label)

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/attention IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- Not applicable

Unknown acute toxicity

32.7506 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance(s)

| Chemical Name | CAS No | Weight-% | Trade Secret |
|------------------|---------|----------|--------------|
| 2-BUTANONE OXIME | 96-29-7 | 1 - 5 | * |

4. FIRST AID MEASURES

Description of first aid measures

 General advice
 Get medical advice/attention if you feel unwell.

 Eye contact
 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/attention.

| Skin contact | IF ON SKIN:. Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
|---|---|
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician. |
| Ingestion | IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. |
| Self-protection of the first aider | Use personal protective equipment as required. |
| Most important symptoms and effe | ects, both acute and delayed |
| Symptoms | See section 2 for more information. |
| Indication of any immediate medic | al attention and special treatment needed |
| Note to physicians | Treat symptomatically. |
| | 5. FIRE-FIGHTING MEASURES |
| Suitable extinguishing media Carbon dioxide (CO2), Dry chemical, | Foam |
| Unsuitable extinguishing media None. | |
| Specific hazards arising from the c None in particular. | hemical |
| • | |
| Explosion data Sensitivity to Mechanical Impact | None. None. |
| Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and precauti As in any fire, wear self-contained bre | None. |
| Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and precauti As in any fire, wear self-contained bre | None. ons for firefighters |
| Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and precauti As in any fire, wear self-contained bre protective gear. | None. ons for firefighters eathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full |
| Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and precauti As in any fire, wear self-contained bre protective gear. Personal precautions, protective en | None. ons for firefighters eathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full 6. ACCIDENTAL RELEASE MEASURES |
| Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and precauti As in any fire, wear self-contained bre protective gear. Personal precautions, protective en Personal precautions | None. ons for firefighters eathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full 6. ACCIDENTAL RELEASE MEASURES quipment and emergency procedures Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and sk |
| Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and precauti As in any fire, wear self-contained bre protective gear. Personal precautions, protective en Personal precautions Environmental precautions | None. ons for firefighters eathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full 6. ACCIDENTAL RELEASE MEASURES quipment and emergency procedures Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and ski |
| Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and precauti As in any fire, wear self-contained bre protective gear. Personal precautions, protective en Personal precautions Environmental precautions Environmental precautions | None. ons for firefighters eathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full 6. ACCIDENTAL RELEASE MEASURES quipment and emergency procedures Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and sk Use personal protective equipment as required. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological Information. |
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7. HANDLING AND STORAGE

| Precautions for safe handling | | |
|---|--|--|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required. | |
| Conditions for safe storage, in | cluding any incompatibilities | |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. | |
| Incompatible materials | Strong oxidizing agents, Acids, Water | |
| 8. | EXPOSURE CONTROLS/PERSONAL PROTECTION | |
| Control parameters | | |
| Exposure Guidelines NIOSH IDLH Immediately Dango | erous to Life or Health | |
| Other Information | Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 | |

Appropriate engineering controls

| Engineering Controls | Showers |
|----------------------|---------------------|
| | Eyewash stations |
| | Ventilation systems |

Individual protection measures, such as personal protective equipment

(11th Cir., 1992).

| Eye/face protection | Tight sealing safety goggles. |
|--------------------------------|--|
| Skin and body protection | Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves. |
| Respiratory protection | Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate. |
| General Hygiene Considerations | Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Odor Mild Odor threshold No information available Property Values Remarks • Method | Physical state | Paste | |
|--|--------------------------------|--------------------------|-------------------|
| Odor threshold No information available Property Values Remarks • Method | Appearance | Gray | |
| Property Values Remarks • Method | Odor | Mild | |
| <u> </u> | Odor threshold | No information available | |
| nH No information available | Property_ | Values_ | Remarks • Method |
| | pH | No information available | |
| Melting point / freezing point No information available | Melting point / freezing point | No information available | |
| Boiling point / boiling range Not Applicable Polymerization | Boiling point / boiling range | Not Applicable | Polymerization |
| Flash point> 93 °C / > 200 °FTag Closed Cup | Flash point | > 93 °C / > 200 °F | Tag Closed Cup |
| Evaporation rate < 1 Butyl acetate = 1 | Evaporation rate | < 1 | Butyl acetate = 1 |
| Flammability (solid, gas) No information available | Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | Flammability Limit in Air | | |
| Upper flammability limit: No information available | Upper flammability limit: | No information available | |
| Lower flammability limit: No information available | Lower flammability limit: | No information available | |
| Vapor pressure<5 mm Hg @ 70°F | Vapor pressure | <5 mm Hg @ 70°F | |

| Vapor density Relative density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties Other Information | >1 1.47 No information available No information available | Air = 1 | |
|--|--|---------|--|
| Softening point Molecular weight VOC Content (%) Density Bulk density | No information available No information available <2% No information available No information available | | |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Excessive heat.

Incompatible materials Strong oxidizing agents, Acids, Water

Hazardous Decomposition Products

Carbon oxides Nitrogen oxides (NOx) Formaldehyde May release 2-butanone oxime (ethyl methyl ketoxime) at elevated temperature

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| Inhalation | May cause irritation of re | May cause irritation of respiratory tract. | |
|------------------|----------------------------|---|------------------------------------|
| Eye contact | Contact with eyes may c | Contact with eyes may cause irritation. May cause redness and tearing of the eyes. | |
| Skin contact | May cause sensitization | May cause sensitization by skin contact. May cause skin irritation and/or dermatitis. | |
| Ingestion | Ingestion may cause irrit | Ingestion may cause irritation to mucous membranes. | |
| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| 2-BUTANONE OXIME | - 930 mg/kg (Rat) | 1000 - 1800 mg/kg (Rabbit) | > 4800 mg/m ³ (Rat) 4 h |

| | | Dermai LDJU | |
|-----------------------------|-------------------|----------------------------|----------------------|
| 2-BUTANONE OXIME 96-29-7 | = 930 mg/kg (Rat) | 1000 - 1800 mg/kg (Rabbit) | > 4800 mg/m³(Rat)4 h |

Information on toxicological effects

Symptoms

No information available.

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

| Sensitization | No information available. | |
|--|---------------------------------|--|
| Germ cell mutagenicity | No information available. | |
| Carcinogenicity | No information available. | |
| Target Organ Effects | Eyes, Respiratory system, Skin. | |
| The following values are calculated based on chapter 3.1 of the GHS document . | | |

ATEmix (oral) 14587 ATEmix (dermal) 17649

12. ECOLOGICAL INFORMATION

Ecotoxicity

99.8106 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

| Chemical Name | Partition coefficient |
|------------------|-----------------------|
| 2-BUTANONE OXIME | 0.65 |
| 96-29-7 | |

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

| Waste treatment methods | | | | |
|-------------------------|---|--|--|--|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. | | | |
| Contaminated packaging | Do not reuse container. | | | |
| US EPA Waste Number | Not applicable | | | |

14. TRANSPORT INFORMATION

| DOT Proper shipping name: | Not regulated |
|-------------------------------|---------------|
| IATA Proper shipping name: | Not regulated |
| IMDG Proper shipping name: | Not regulated |

15. REGULATORY INFORMATION

| International Inventories | |
|---------------------------|----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Not determined |
| ENCS | Not determined |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |
| | |

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 and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

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

| Acute health hazard | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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 |
|------------------|------------|---------------|--------------|
| ALUMINIUM POWDER | Х | Х | Х |
| 7429-90-5 | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

D2B - Toxic materials

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| NFPA | Health hazards | 2 |
|------|----------------|---|
| HMIS | Health hazards | 2 |

Flammability 1 Flammability 1 Instability 0 Physical hazards 0

Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date 20-Oct-2016

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.

End of Safety Data Sheet