

MATERIAL SAFETY DATA SHEET

Revision Date: 06/08/2022

MSDS

Print Date: 06/08/2022 Version: 1.0

Section 1 - Identification of the Substance/Preparation and of the Company/Undertaking

HSN Number: 3505

Product Name: THERMAL PASTE

Other Means of Identification: ANTI COROSON / CONDUCTIVE MATERIAL

Chemical Family: OIL BASE HARD SILICON

Quality & Effects: Protective barrier against rust (corrosion). No hole or any Corson cause

to copper coil. Also act as a high Conductive material widely uses in

refrigeration industries.

Company Information:-

Trade Name: JEET CHEMICAL

Trade Address: FLAT NO A-5/62, BROADWAY AVENUE CHS LTD, NEAR JANGID COMPLEX,

MIRA-BHAYANDAR, Shanti Park, Mira, Nadia-401107, West Bengal, India

Phone Number: +91 94233 65809

Email: jeetchemical2000@gmail.com

Section 2 - Hazards Identification

2.1. Classification Physical Hazard: N/A
Health Hazard: N/A
Environmental hazards: N/A
Label Elements Symbol: N/A

2.2. Signal Word:

No Signal Word Hazard Statement(s): N/A
Precautionary Statement(s): N/A
Hazards Not Otherwise Classified: N/A
Ingredients(s) with Unknown Acute Toxicity: N/A



Section 3 – Composition/Information on Ingredients

Substance: Thermal Paste

Other Designations: N/A

| Property | Value |
|-----------------------|----------------------------|
| Major Constituent | No |
| Toxic | No |
| FOOD GRADE TYPE | Oxides, Silcazel, Additive |
| Ready Mixed or 2 Part | 2 Part |
| Dispensable | YES |
| Relative Viscosity | Viscous paste-Thixotropic |
| Coverage | 1 m @ 6 mm diam bead |
| Rate/Coating | |
| Thickness | 10 mm @ 20 mm diam bead |
| Transfer of Tempera- | -80 TO 150° c |
| Ture(°c): | 250° c |



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Section 4 - First Aid Measures

4.1. Description of first aid measures

| Inhalation | No harm .Not hazardous as it contains oil base silicon. As there is no gas emanating from this paste so it doesn't make any air pollution. So it does not give any sensation and not probably irritate the lungs. |
|----------------------------|--|
| Skin contact | Rinse with water. |
| Eye contact | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. |
| Ingestion | Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of me dical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. |

4.2. Most important symptoms and effects, both acute and delayed Overview

General information:

See Section 11 for additional information on health hazards. The severity of the

symptoms described will vary dependent on the concentration and the length of

exposure.

Inhalation: Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion: Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents

may be inhaled, resulting in the same symptoms as inhalation.

Skin contact: Prolonged contact may cause dryness of the skin.

Eye contact: May cause temporary eye irritation. Respiratory conditions may be aggravated by

chronic or acute exposures.

Section 5 – Fire-fighting Measures

5.1. Extinguishing Media:

| Fire and Explosion Hazards: | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
|--------------------------------|--|
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

5.2. Special hazards arising from the substance or mixture:

| Specific hazards | Containers can burst violently or explode when heated, due to excessive pressure build-up. |
|---------------------|--|
| | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. |



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5.3. Advice for firefighters

| Protective | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water | |
|---------------|--|--|
| actions | spray and remove them from the fire area if it can be done without risk. Cool containers exposed | |
| during | to flames with water until well after the fire is out. If a leak or spill has not ignited, use water | |
| firefighting | spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic | |
| | environment. Control run-off water by containing and keeping it out of sewers and watercourses. | |
| | If risk of water pollution occurs, notify appropriate authorities. | |
| Special | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective | |
| protective | clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, | |
| equipment for | protective boots and gloves) will provide a basic level of protection for chemical incidents. | |
| firefighters | | |

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

6.2. Environmental precautions Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections Reference to other sections

for personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13



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Section 7 - Handling and Storage

7.1. Precautions for safe handling

| Usage precautions | Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the content of water to this chemical paste. | |
|--|--|--|
| Advice on general occupational hygiene | Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace. | |

7.2. Conditions for safe storage, including any incompatibilities

| Storage precautions | Store away from incompatible materials (see Section 10). Store in accordance with | |
|---------------------|---|--|
| | local regulations. Keep only in the original container. Keep container tightly closed, | |
| | in a cool, well ventilated place. Keep containers upright. Protect containers from | |
| | damage. Bund storage facilities to prevent soil and water pollution in the event of | |
| | spillage. The storage area floor should be leak-tight, joint less and not absorbent. | |
| | Store and handling in accordance with all current regulations and standards. Keep separated from incompatible substances; see Section 10, "Stability and Reactivity". | |

Section 8 – Exposure Controls and Personal Protection

| Engineering Controls | Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure. | |
|----------------------------------|--|--|
| Personal Protective Equipment | In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material. Respiratory Protection: Not necessary under normal Conditions. | |
| | Skin and body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product Stable under normal circumstances. | |
| | Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data | |



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| | specified by the glove manufacturer, check during use that the gloves are retaining their | |
|-------------------|---|--|
| | protective properties and change them as soon as any deterioration is detected. Frequent | |
| | | |
| | changes are recommended. | |
| | Eye Protection: Eyewear complying with an approved standard should be worn if a risk | |
| | assessment indicates eye contact is possible. Personal protective equipment for eye and face | |
| | | |
| | protection should comply with European Standard EN166. Unless the assessment indicates a | |
| | higher degree of protection is required, the following protection should be worn: Tight-fitting | |
| | safety glasses. | |
| Other skin and | Appropriate footwear and additional protective clothing complying with an approved standard | |
| body protection | should be worn if a risk assessment indicates skin contamination is possible. | |
| Hygiene Measures | Provide eyewash station and safety shower. Contaminated work clothing should not be allowed | |
| | out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work | |
| | area every day. Good personal hygiene procedures should be implemented. Wash at the end of | |
| | each work shift and before eating, smoking and using the toilet. When using do not eat, drink | |
| | or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning | |
| | personnel of any hazardous properties of the product. | |
| Environmental | Keep container tightly sealed when not in use. Emissions from ventilation or work process | |
| exposure controls | equipment should be checked to ensure they comply with the requirements of environmental | |
| <u> </u> | protection legislation. In some cases, fume scrubbers, filters or engineering modifications to | |
| | the process equipment will be necessary to reduce emissions to acceptable levels. | |

Section 9 - Physical and Chemical Properties

| Descriptive Properties: | THERMAL PASTE |
|---|--------------------------|
| Appearance | Paste |
| (Physical state, color, etc.): | White |
| Molecular Formula: | |
| Molar Mass (g/mol): | |
| Odor: | |
| Odor threshold: | |
| pH: | |
| Evaporation rate: | |
| Melting point/freezing point (°C): | |
| Vapor Pressure (mmHg): | |
| Vapor Density (air = 1): | Not applicable |
| Partition coefficient (n-octanol/water): | |
| Particle Size (if relevant) | |
| Thermal Stability Properties: | |
| Autoignition Temperature (°C): | |
| Thermal Decomposition (ºC): | |
| Initial boiling point and boiling range (°C): | |
| Explosive Limits, LEL (Volume %): | SERVICE SERVICE |
| Explosive Limits, UEL (Volume %): | |
| Flash Point (ºC) | |
| Flammability (solid, gas): | |
| Relative Density (g/L): | 2.1 @ 20°C/68°F |
| Solubility(ies): | Insoluble in water. |
| Viscosity (cP): | 201-227 Pa s @ 20°C/68°F |



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Section 10 - Stability and Reactivity

| Stability | The product is stable under normal conditions. |
|--------------------------------------|--|
| Conditions to Avoid | There are no known conditions that are likely to result in a hazardous situation. |
| (e.g. static discharge, | |
| shockor vibration) | |
| Incompatible Materials | No specific material or group of materials is likely to react with the product to produce a hazardous situation. |
| Hazardous Decomposition Products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. |
| Possibility of Hazardous Reaction | No potentially hazardous reactions known. |

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Route of Exposure: X Inhalation X Skin X Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: No data available.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: No data available.

Skin Contact: No data available; skin exposure may result in mechanical irritation.

Eye Contact: No data available; may cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available

Carcinogenicity: Not classified.



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Listed as a Carcinogen/Potential Carcinogen -----Yes ----X -----No

Thermal Paste Is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available. **Specific Target Organ Toxicity, Repeated Exposure:** Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

Section 12 - Ecological Information

| General note: | Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic |
|---|---|
| | Chronic 1 - H410 Very toxic to aquatic life with long lasting |
| | effects. |
| Anticipated behavior of a chemical product in | Not Available |
| environment/possible environmental | |
| impace/Eco toxicity | |
| Mobility in soil | Not Available |
| | |
| Persistence and Degradability | The degradability of the product is not known. |
| Bioaccumulation potential | No data available on bioaccumulation. |
| Other Adverse Effects | Not Available |

Section 13 – Disposal Considerations

Waste Disposal: The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods: Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.



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Section 14 – Transport Information

General: For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

Oxides, Silcazel, Additive

Section 15 - Regulatory Information

National regulations

Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 15.2. Chemical safety assessment No chemical safety assessment has been carried out.



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Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, **THERMAL PASTE** makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

Prepared By: Quality Engineer Approved By: Quality Manager

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