



# Safety Data Sheet

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

|                         |  |
|-------------------------|--|
| Product Name/Identifier | Non-melt red grease  |
| Product Code            | GG3017   |
| Product Use             | Heavy duty high load and high temperature grease.  |
| Company Information     | Vance Chemicals Pte Ltd<br>No.24 Gul Lane<br>Singapore 629418<br>+65 6863 0863<br><a href="mailto:msds@mr-mckenic.com">msds@mr-mckenic.com</a> |
| Emergency Contact       | +65 9299 8024  |

## SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

| Health          |            | Environmental  | Physical       |
|-----------------|------------|----------------|----------------|
| Skin irritation | Category 3 | Not classified | Not classified |
| Eye irritation  | Category 2 |                |                |

GHS LABEL:

EU LABEL:

Unclassified



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## Hazard Statements:

| Code | Health hazard statements    | Hazard class                            | Hazard category |
|------|-----------------------------|---|-----------------|
| H316 | Causes mild skin irritation | Skin corrosion/irritation (chapter 3.2) | 3               |
| H320 | Causes eye irritation       | Eye damage/irritation(chapter 3.3)      | 2               |

## Precautionary Statements:

| Code | Prevention precautionary statements | Hazard class                        | Hazard category |
|------|-------------------------------------|-------------------------------------|-----------------|
| P264 | Wash thoroughly after handling      | Eye damage/irritation (Chapter 3.3) | 2               |

## Response:

| Code               | Response precautionary statements   | Hazard class                            | Hazard category |
|--------------------|---|---|-----------------|
| P305+P351<br>+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing | Eye damage/irritation (chapter 3.3)     | 2               |
| P337+P313          | If eye irritation persists: Get medical advice/attention.   | Eye damage/irritation (chapter 3.3)     | 2               |
| P332+P313          | If skin irritation occurs: Get medical advice/attention.  | Skin corrosion/irritation (Chapter 3.2) | 3               |

## SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

| Chemical Identity   | CAS #       | EINECS #    | R Phrase | S Phrase | Weight % |
|---|-------------|-------------|----------|----------|----------|
| Highly refined base Oils(Mineral Oils)  | Proprietary | Proprietary | -        | -        | 88-95    |
| Additives which may include thickeners, extreme pressure agents, antioxidants, tackifier, and water wash out. | Proprietary | Proprietary | -        | -        | 5-8      |
| Other Proprietary additives   | Proprietary | Proprietary | -        | -        | Blend    |

## SECTION 4 FIRST AID MEASURES

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.                         |
| <b>Skin contact</b> | Remove contaminated clothing. Flush exposed area with large amount of water for at least 15 minutes followed by washing with soap. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment. |



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|-------------------|--|
| <b>Inhalation</b> | Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation |
| <b>Ingestion</b>  | If swallowed, give 2 glasses of water. Do not induce vomiting. Do not give anything to drink if unconscious. Transport to nearest medical facility for additional treatment.   |

## SECTION 5 FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>               | Non-flammable. Use water spray, fog or foam to cool fire exposed surfaces and to protect personnel.  |
| <b>Unsuitable Extinguishing Media</b>             | -  |
| <b>Specific Hazards Arising from the Chemical</b> | Oxides of carbon, smoke, fume, incomplete combustion products  |
| <b>Protection for Fire-fighters</b>               | Evacuate personnel to safe areas. Intervention only by capable personnel who are trained and aware of the hazards of the product. In the event of fire, wear self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel. |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

|  |  |
|--|--|
| <b>Personal Precautions and Protective Equipment</b> | Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible products. Isolate the area. Cover the spreading liquid with foam in order to slow down the evaporation. Ventilate the area. |
| <b>Environmental Precautions</b>                     | Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent discharges into the environment (sewers, rivers, soils), basements or confined areas. Immediately notify the appropriate authorities in case of discharge.   |
| <b>Method for Cleaning Up &amp; Containment</b>      | Scrap up grease and deposit into containers for disposal.  |
| <b>Emergency Procedures</b>                          | Shut off leaks, if possible without personal risks. Remove all possible ignitions in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.                         |



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## SECTION 7 HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with skin and eyes. Prevent product vapours decomposition from contacting hot spots. Prevent product vapours decomposition from electric arc action (welding). Preferably transfer by pump or gravity. Use only equipment and materials which are compatible with the product. Keep away from heat and sources of ignition. Keep away from incompatible products.

**Conditions for Safe Storage:** Keep container dry. Keep in a cool, well-ventilated place. Open slowly in order to control possible pressure release. Ground all equipment containing material. Storage containers should be earthed and bonded. Drums must be earthed and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Keep container tightly closed. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Storage temperature: Ambient

Storage/Transport Pressure: Atmospheric

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Component   | ACGIH TLV | ACGIH STEL | OSHA PEL | OSHA STEL |
|---|-----------|------------|----------|-----------|
| Highly refined base Oils(Mineral Oils)  | NA        | NA         | NA       | NA        |
| Additives which may include thickeners, extreme pressure agents, antioxidants, tackifier, and water wash out. | NA        | NA         | NA       | NA        |
| Other Proprietary additives   | NA        | NA         | NA       | NA        |

|                             |   |
|-----------------------------|---|
| <b>Engineering Controls</b> | Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery. Refer to protective measures listed in sections 7 and 8. Apply technical measures to comply with the occupational exposure limits. |
|-----------------------------|---|

### Personal Protective Equipment (PPE):

|                               |  |
|-------------------------------|--|
| <b>Eye Protection</b>         | Wear protective goggles for all industrial operations. If risk of splashing, chemical proof goggles/face shield.   |
| <b>Skin Protection</b>        | Apron/boots of neoprene if risk of splashing. For hand protection, use chemical resistant protective gloves such as Polyvinyl alcohol.   |
| <b>Respiratory Protection</b> | In the case of hazardous fumes, wear self-contained breathing apparatus. Self-contained breathing apparatus in medium confinement/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection |



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|-----------------|----|
| Thermal hazards | NA |
|-----------------|----|

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

|  |                      |
|--|----------------------|
| Appearance   | Red                  |
| Odour  | Characteristic odour |
| Odour Threshold  | NA                   |
| pH   | NA                   |
| Melting Point/ Freezing Point (°C)                           | 260°C                |
| Initial boiling point and range (°C)                         | Not determined       |
| Flash Point (°C) [According to ISO 3679, Closed Cup Testing] | Not determined       |
| Evaporation Rate   | Not determined       |
| Flammability (solid, gas)                                    | Not applicable       |
| Upper/lower Flammability (Explosive) Limits:                 | Not determined       |
| Vapour Pressure  | Not determined       |
| Vapour Density   | Not determined       |
| Relative Density   | 0.95± 0.03           |
| Solubility in water  | Insoluble            |
| Partition coefficient (N-Octanol/water)                      | Not determined       |
| Auto-ignition Temperature (°C)                               | Not determined       |
| Decomposition Temperature:                                   | Not determined       |
| Viscosity (mPa s)  | Not determined       |

## SECTION 10 STABILITY AND REACTIVITY

|                                   |  |
|-----------------------------------|--|
| Reactivity/Incompatible materials | Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium, and lithium. Avoid contact with open flames and electrical arcs. |
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|---|--|
|   | Liquid Dichloromethane will attack some forms of plastics, rubber, and coatings.           |
| <b>Chemical Stability</b>                 | Stable at normal temperatures and storage conditions.                                      |
| <b>Possibility of hazardous reactions</b> | Not determined   |
| <b>Hazardous decomposition products</b>   | Normal combustion forms carbon dioxide; Incomplete combustion may produce carbon monoxide. |
| <b>Conditions to avoid</b>                | Avoid contact with excessive heat  |

### SECTION 11 TOXICOLOGICAL INFORMATION

|  |
|--|
| <b>Name:</b> Non-melt red grease   |
| <b>Effects on humans:</b><br><u>Eyes contact:</u><br>- Minor irritation and redness<br><u>Skin contact:</u><br>- Prolonged or repeated skin contact may cause minor irritation and redness to skin.<br><u>Ingestion:</u><br>- Moderately toxic. May cause irritation of the mouth, throat, and gastrointestinal tract. Aspiration into lungs may cause chemical pneumonia and lung damage. Aspiration symptoms may be delayed in onset by up to 24 hours.<br><u>Inhalation:</u><br>- Product is non-volatile. However, if heated may be irritating to upper respiratory system |
| <b>Acute toxicity:</b> No specific acute toxicity data available for this product.   |
| <b>Skin corrosion/irritation:</b> Minor irritation   |
| <b>Serious eye damage/irritation:</b> Minor irritation   |
| <b>Specific target organ toxicity (Repeated exposure):</b> Repeated overexposure may lead to dryness and cracking of skin.   |

### SECTION 12 ECOLOGICAL INFORMATION

|                                  |  |
|----------------------------------|--|
| <b>Toxicity</b>                  | No specific aquatic toxicity data available for this product |
| <b>Persistence/Degradability</b> | Expected to be inherently biodegradable                      |
| <b>Mobility in soil</b>          | NA   |



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## SECTION 13 DISPOSAL CONSIDERATIONS

### Local legislation

Dispose in compliance with local/federal and national regulations. It is recommended to contact the producer for recycling/recovery. Or send the product to an authorized hazardous waste incinerator. The incinerator must be equipped with a system for the neutralization or recovery of HF.

### Container Disposal

To avoid treatments, as far as possible, use dedicated containers. If not, rinse the empty containers with a low volatility hydrocarbon and treat the effluent in the same way as waste. Containers that cannot be cleaned must be treated as waste.

## SECTION 14 TRANSPORT INFORMATION

### Land (ADR)

|                      |               |
|----------------------|---------------|
| UN number            | Not regulated |
| UN Class             | NA            |
| Subsidiary risk      | NA            |
| Packing Group        | NA            |
| Proper shipping name | NA            |
| HIN                  | NA            |

### Sea (IMDG)

|                      |               |
|----------------------|---------------|
| UN number            | Not regulated |
| UN Class             | NA            |
| Subsidiary risk      | NA            |
| Packing Group        | NA            |
| Proper shipping name | NA            |
| Marine pollutant     | NA            |

### Sea (Annex II of MARPOL 73/78 and the IBC Code)

|                    |    |
|--------------------|----|
| Pollution category | NA |
| Ship type          | NA |



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|              |    |
|--------------|----|
| Product name | NA |
|--------------|----|

### Air (IATA)

|                      |               |
|----------------------|---------------|
| UN number            | Not regulated |
| UN Class             | NA            |
| Subsidiary risk      | NA            |
| Packing Group        | NA            |
| Proper shipping name | NA            |

### Special precautions:

|  |
|--|
| Before transportation, make sure the containers are tightly sealed and that there are no liquid or gas leaks.  |
| When transporting containers, be sure that they are tightly fastened. An appropriate buffer material should be placed between them to prevent them from bumping each other and being damaged during transport. |

## SECTION 15 REGULATORY INFORMATION

### EU Information

**Risk Phrase:** Not applicable

**Safety Phase:** Not applicable

### USA Information

This product does not contain any chemical(s) that is listed under Comprehensive Environmental Response and Liability Act of 1980 (CERCLA).

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:** No applicable

This product does not contain any toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372).

### Canada Information

This product does not contain any chemical(s) which is listed under WHMIS classification.

## SECTION 16 OTHER INFORMATION

**Department issuing date sheet:** Vance Chemicals Quality Control and Laboratory

**Original Issue date:** 1<sup>st</sup> January 2010

**Issue date:** N.A





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**Revision date:** 19<sup>th</sup> August 2011

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