

[VIGOGREASE RE0][070750LE]

SAFETY DATA SHEET**1. Identification**Product identifier: **VIGOGREASE RE0**Recommended use of the chemical and restrictions on use:
Lubricating grease

Company

Name: Nabtesco Corporation
TSU PLANT

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2. Hazards identificationClassification of this product in accordance with 29 CFR 1910.1200
(OSHA HazCom 2012).

GHS Classification

Physical Hazards : Classification not possible

Health Hazards : Classification not possible

Environment Hazards : Classification not possible

OSHA Defined Hazards: (Pyrophoric gas, Simple asphyxiant,
Combustible dust) : Classification not possible

GHS Labeling Elements

Symbol: Not applicable.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Precautionary Statements

Prevention:

Not applicable.

Response:

Not applicable.

Storage:

Not applicable.

Disposal:

(P501) Disposal should be in accordance with applicable
regional, national and local laws and regulations.

Hazards Not Otherwise Classified(HNOC)

• Not applicable.

Other Information

• 70-80% of the mixture consists of ingredients of unknown acute
toxicity.**3. Composition/ information on ingredients**

Formula: Not applicable.

[VIGOGREASE RE0][070750LE]

Components:

Component	CAS No.	Contents(%)
Base oil(Synthetic hydrocarbon oil, refined mineral oil)	Trade secret	85-95
Thickener(Lithium soap)	Trade secret	< 10
EP additive(Molybdenum compound(s), zinc compound(s))	Trade secret	< 5
Additive(s)	Trade secret	< 5

The specific chemical identity of composition has been withheld as a trade secret.

See Section 8 for exposure limits (if applicable).

See Section 15 for legal controlled substance (if applicable).

4. First-aid measures

Eye Contact:

- Immediately flush with water for at least 15 minutes. Get medical attention.

Skin Contact:

- Thoroughly remove with cloth or paper and wash carefully with soap and water.

Inhalation:

- Remove the victim from the contamination to fresh air. Cover the victim in a blanket to keep warm and quiet. Consult a physician.

Ingestion:

- Do not induce vomiting. Immediate consult a physician.

Symptoms/effects, acute and delayed:

- No data available.

Indication of immediate medical attention and special treatment needed:

- Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. Fire-fighting measures

Extinguishing Media:

- Foam, dry chemical, CO2, dry sand.

Unsuitable Extinguishing Media:

- Do not use water. Water can be dangerous possibly leading to fire spread.

Specific Hazards with Regard to Fire-fighting:

- Thermal decomposition and combustion may produce carbon monoxide and/or carbon dioxide.

Specific Methods of Fire-fighting:

- In the early stages of fire, use dry chemical, CO2, dry sand, etc. fire-extinguisher.
- In case of massive fire, use foam fire-extinguisher to shut off the air supply.
- Get all persons to safety. Authorized personnel only at the fire site.

Special protective equipment and precautions for fire-fighters:

- Fire-fighters should wear protective equipment.
- Start fire fighting from the windward side.

[VIGOGREASE RE0][070750LE]

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:

- Wear protective equipment during cleanup work.

Environmental Precautions:

- Prevent spills from entering sewers or waterway.

Methods for Clean-Up:

- Collect spillage into a chemical waste container with a cover for disposal. For small spills, wipe off with a solvent (e.g., kerosene).

Prevention of Secondary Hazards:

- Immediately shut off all sources of ignition.

7. Handling and storage

Handling

Technical Measures:

- Handle the product in a well-ventilated place. Do not leak, flood or scatter the product to prevent unwanted evaporation.

Precautions:

- Contact with eye may cause irritation. Use protective glasses to avoid contact with eyes.
- Contact with skin may cause irritation. Use protective gloves to avoid skin contact.
- Do not swallow. (Drinking the product may cause diarrhea and vomiting.)
- Close container after each use.

Precautions for Safe Handling:

- Wear gloves to avoid injury on hands at opening the container.

Storage

Appropriate Storage Conditions:

- Keep container closed to protect from dust/water ingress after use.
- Store in a cool, dry place, away from direct sunlight, heat source and fire.
- Keep out of reach of children.

Safe Packaging Materials:

- Do not expose empty container to pressure.
- Do not weld, heat, drill or cut container. Residue ignition and explosion hazards.

8. Exposure controls/personal protection

Exposure Guidelines

OSHA:

- Oil mist, mineral: TWA 5mg/m³
- Molybdenum compounds: TWA 15mg/m³

ACGIH:

- Mineral oil: TWA 5mg/m³
- Molybdenum compounds: TWA 3mg/m³

NIOSH:

- Oil mist (mineral): TWA 5mg/m³

Engineering Controls:

- When vapor or mist exhales, install an apparatus to close the vapor/mist source or ventilation equipment.

[VIGOGREASE RE0][070750LE]

Individual protection measures, such as personal protective equipment:

- Wear protective gloves/protective clothing/eye protection /face protection.

Protective Equipment

Respiratory Protection:

- Wear a gas mask for organic gas when needed (not necessary under normal conditions).

Hand Protection:

- Wear oil-resistant protective gloves in case of prolonged and/or repeated skin contact.

Eye Protection:

- Wear chemical safety goggles whenever the product splashes.

Skin and Body Protection:

- Wear long-sleeved oil-resistant working clothes whenever handling for many hours and/or getting wet. Immediately take off the wet clothes and thoroughly wash them before reusing.

9. Physical and chemical properties

Appearance

Form	: Semi-solid
Color	: Yellowish brown
Odor	: Slight odor
Odor threshold	: No data available.
pH	: Not applicable.
Melting point	: No data available.
Initial boiling point and boiling range	: No data available.
Flash point	: 195°C (Seta)
Evaporation rate	: No data available.
Flammability	: No data available.
Upper/lower flammability or explosive limits	: No data available.
Vapor pressure	: No data available.
Solubility in water	: Insoluble in water
Vapor density	: No data available.
Density	: 0.90 (25°C) g/cm ³
Partition coefficient: n-octanol/water	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: Not applicable.
Dropping point	: 187°C

10. Stability and reactivity

Reactivity, Conditions to avoid:

- Avoid contact with strong oxidant.

Chemical Stability:

- Product is stable under normal conditions.

[VIGOGREASE RE0][070750LE]

Possibility of Hazardous Reactions:

- Not available.

Materials to avoid:

- Strong oxidizers.

Hazardous Decomposition Products:

- This material is expected to be stable under normal conditions of use.

11. Toxicological information

Information on the likely routes of exposure

Skin Contact: May cause an allergic skin reaction.

Delayed and immediate effects and also chronic effects from short- and long-term exposure

Acute toxicity - Oral: No data available.

- Refined mineral oil LD50 Acute oral >5 g/kg (rat)

Acute toxicity - Dermal: No data available.

Acute toxicity - Inhalation (Gases): No data available.

Acute toxicity - Inhalation (Vapors): No data available.

Acute toxicity - Inhalation (Dusts and mists): No data available.

Chronic toxicity: No data available.

Skin corrosion/irritation: No data available.

Eye damage/irritation: No data available.

Sensitization - Respiratory: No data available.

Sensitization - Skin: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Toxic to reproduction: No data available.

Effects on or via lactation: No data available.

Specific target organ toxicity (Single exposure):

No data available.

Specific target organ toxicity (Repeated exposure):

No data available.

Aspiration hazard: No data available.

Other Toxicity Information

NTP Report on Carcinogens: Not listed.

IARC Monographs: Not listed.

12. Ecological information

Ecotoxicity

Hazardous to the aquatic environment (Acute hazard):

No data available.

Hazardous to the aquatic environment (Long-term hazard):

No data available.

Persistence and Degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Hazardous to the ozone layer: No data available.

[VIGOGREASE RE0][070750LE]

13. Disposal considerations

Waste Residues:

- Properly dispose of in accordance with any relevant regulations.
- Properly dispose of by a licensed waste disposer.
- For in-house incineration disposal, ensure exhaust gas treatment (washing treatment, etc.) to prevent air pollution from sulfur oxides.
- No dumping.
- When burning, be sure to do so on someone's watch in a safe place and in the way that burning and/or explosion will never pose a potential hazard.

Contaminated Packaging:

- Dispose of container after completely removing the contents.

14. Transport information

DOT Hazardous Materials: Not applicable.

UN Transport of Dangerous Goods

UN Number: Not applicable.

UN Proper Shipping Name: Not applicable.

Transport Hazard Class: Not applicable.

Packing Group: Not applicable.

Land(RID/ADR): Not applicable.

Sea(IMO/IMDG): Not applicable.

Air(ICAO/IATA): Not applicable.

Specific Precautionary Transport Measures and Conditions:

- • Contains combustible liquid. Keep fire away.
- Handle with care to prevent container damage.
- Ensure proper packaging before shipping to avoid load shifting and falling accident.

15. Regulatory information

Regulatory information with regard to this product in your country or your region should be examined by your own responsibility.

US TSCA (Toxic Substances Control Act)

All components of this product are listed on the TSCA inventory of Chemical Substances.

US OSHA (Occupational Safety and Health Act):

This product contains substances listed in OSHA 29 CFR 1910.

subpart Z:

Name	Threshold(%)	CAS No.	Contents(%)
Molybdenum compound(s)	>0.1	Trade secret	1-3

US CERCLA

(Comprehensive Environmental Release, Compensation & Liability Act):

CERCLA Hazardous Substances:

Name	Threshold(%)	CAS No.	Contents(%)
Zinc compound(s)	>0.1	Trade secret	0.5-1.0

[VIGOGREASE RE0][070750LE]

US SARA (Superfund Amendment & Reauthorization Act) Title III:
SARA Extremely Hazardous Substances (302): None

SARA Hazard Categories (311/312): None

SARA Toxic Release Inventory (TRI) (313):

Name	Threshold(%)	CAS No.	Contents(%)
Zinc compound(s)	>0.1	Trade secret	0.5-1.0

PROPOSITION 65 List: None

16. Other Information

NFPA

Health hazards: 1
Flammability: 1
Instability: 0
Special Hazard: -

Contact Information

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References

- 1.OSHA Hazard Communication Standard 29 CFR 1910.1200
- 2.Thresholds limit values for chemical substances and physical agents and biological exposure indices, ACGIH(2012)
- 3.US NIOSH Pocket Guide to Chemical Hazards, 2010
- 4.IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS VOLUME 33
- 5.Report on Carcinogens Twelfth Edition 2011, NTP
- 6.EU CLP Regulation (EC No 1272/2008 ANNEX VI Harmonised classification and labelling for certain hazardous substances)
- 7.Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Third revised edition.

Disclaimer

This SDS is an addition and complementary document beside the technical data sheet.The information is based upon our knowledge about the product at the date of edition.

Since we cannot anticipate or control the different conditions under which these information or our product may be used, we make no guarantee that recommendations will be adequate for all individuals and situations.