

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Vacuum Pump Oil (4383-07, 4383-24, 4383-34, 4383-01)

CAS # Mixture

Product Use Lubricating vacuum pumps

Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Emergency overview MAY CAUSE EYE AND SKIN IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

EyesDirect contact with eyes may cause temporary irritation.SkinNo adverse effects due to skin contact are expected.InhalationNo adverse effects due to inhalation are expected.IngestionMay cause stomach distress, nausea or vomiting.

Target organs Skin. Eyes.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Composition comments None by WHMIS criteria.

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain

medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean

forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician Treat symptomatically.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of

reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing Water

media

Water Fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Sand.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising

from the chemical

rising Not available

Protective equipment for

firefighters

Not available

Hazardous combustion

products

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch

Do not discharge into lakes, streams, ponds or public waters.

damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or

confined areas.

Methods for cleaning up Following product recovery, flush area with water. Before attempting clean up, refer to hazard data

given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling Use only with adequate ventilation. Avoid breathing vapours or mists of this product.

Avoid contact with eyes, skin and clothing.

When using do not eat or drink. Wash thoroughly after handling.

Use good industrial hygiene practices in handling this material.

Keep container tightly closed.

Storage Store in a closed container away from incompatible materials. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Exposure limits Not applicable.

Engineering controls General ventilation normally adequate.

Personal protective equipment

Eye/Face protection Hand protection Not normally required when used as directed. Safety glasses if eye contact is possible.

Not normally required when used as directed. If there is constant skin contact, rubber gloves are

recommended.

Skin and body protection

Respiratory protection

General hygiene considerations

As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and Chemical Properties

AppearanceClearColourColourlessFormLiquid.

Odour Slight hydrocarbon
Odour threshold Not available.

Physical state Liquid.

pH Not availableFreezing point Not available.

Boiling point > 137.78 °C (> 280 °F)

Pour point -15 °C (5 °F)

Evaporation rate Not available

Flash point 107.2 °C (225.0 °F) Cleveland open cup

> 160 °C (> 320 °F) Not available **Auto-ignition temperature**

Flammability Limits in Air, Upper, % by Volume

< 10

Flammability Limits in Air,

Lower, % by Volume

> 1

Heat of combustion

Not available. Vapour pressure < 0.5 mPa

> 1 Vapour density Specific gravity < 1 **Partition coefficient** > 6

(n-octanol/water)

Solubility (Water) Negligible Not available. Relative density 48.65 mm2/s **Viscosity** VOC Not available Percent volatile Not available

10. Stability and Reactivity

Reactivity

This product may react with strong oxidising agents.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Not available.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Effects of acute exposure

Eye contact Direct contact with eyes may cause temporary irritation. No adverse effects due to skin contact are expected. Skin contact Inhalation No adverse effects due to inhalation are expected. May cause stomach distress, nausea or vomiting. Ingestion

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects The finished product is not expected to have chronic health effects.

Non-hazardous by WHMIS criteria. Carcinogenicity Mutagenicity Non-hazardous by WHMIS criteria. Reproductive effects Non-hazardous by WHMIS criteria. Non-hazardous by WHMIS criteria. **Teratogenicity**

Name of Toxicologically **Synergistic Products**

Not available.

12. Ecological Information

Ecotoxicity Not available.

Persistence and degradability This product is not readily biodegradable.

Bioaccumulation/accumulation Bioaccumulation potential.

Mobility in environmental

media

Not available.

Not available. **Environmental effects Aquatic toxicity** Not available. > 6

Chemical fate information Not available.

13. Disposal Considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in

accordance with all applicable regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the MSDS contains all the information required by the Controlled Products

Regulations.

WHMIS status Not Controlled

Inventory status

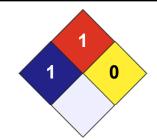
Country(s) or region Inventory Name On Inventory (Yes/No)*

Canada Domestic Substances List (DSL) Yes
Canada Non-Domestic Substances List (NDSL) No

16. Other Information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the

document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)