
SECTION #1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **CIMCO TYPE C**

OTHER MEANS OF IDENTIFICATION: Severely hydrotreated naphthenic oil.

RECOMMENDED USE: Refrigeration lubricant

MANUFACTURER / SUPPLIER'S NAME: CIMCO REFRIGERATION
65 VILLIERS STREET
TORONTO, ONTARIO
M5A 3S1
Tel.: (416) 465-7581

24 HOURS EMERGENCY: Call CHEMTREC 1-800-424-9300 or 703-527-3887

SECTION #2 HAZARDS IDENTIFICATION

WHMIS CLASS AND DESCRIPTION - According to Hazardous Products Regulations (HPR) (SOR/2015/17)



These products are not regulated by the WHMIS.

EMERGENCY OVERVIEW: Repeated exposure may cause skin dryness and cracking

ROUTES OF ENTRY: Dermal contacts, Eye contact, Inhalation and Ingestion

POTENTIAL ACUTE HEALTH EFFECTS:

INHALATION: Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea. Short-term overexposure can cause an irritation to the respiratory passages.

CONTACT WITH EYES: This product should not cause eye irritation. However, prolonged and repeated contact with this product may cause eye irritation

SKIN CONTACT: This product should not cause skin irritation. However, prolonged and repeated contact with this product can cause skin drying, which may result in skin irritation and dermatitis.

INGESTION: May cause nausea, do not induce vomiting.

OTHER EFFECTS: None expected to cause any significant health effect under normal conditions of use. Not MUTAGENIC, GENOTOXIC or SENSITIZING for animals and humans.

MEDICAL CONDITIONS AGGRAVED BY OVEREXPOSURE:

Pre-existing disorders involving any target organs mentioned in MSDS as being at risk may be aggravated by the over-exposure to this product.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION #3 COMPOSITION/INFORMATION ON INGREDIENTS

According to Hazardous Products Regulations (HPR) (SOR/2015/17)

NAME	% weight	CAS #
Severely Hydrotreated Naphthenic Petroleum Oil	100	64742-52-5 and 64742-53-6

- No hazardous ingredients as defined by the Canadian Hazardous Products Act (BILL C70) or by OSHA 29 CFR 1910.1200.
- Canadian DSL status: All ingredients are listed.
- No components of this product have been found carcinogenic or potential carcinogen. Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. National Toxicology Program (NTP). This product or its components have no teratogenic or mutagenic effects known.

SECTION #4 FIRST AID MEASURES

- GENERAL ADVICE:** IN CASE OF SERIOUS OR ANY PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY CARE. Show this material safety data sheet to the medical personnel in attendance.
- INHALATION:** Remove person to fresh air. See a physician if irritation persists.
- CONTACT WITH EYES:** Flush immediately with water for at least 15 minutes.
- CONTACT WITH SKIN:** Wash contaminated skin with mild soap and water. See a physician if irritation persists.
- INGESTION:** This product has a low toxicity. May cause nausea and have a laxative effect. Do not induce vomiting. Contact an Anti-Poison Center (1-800-463-5060).
- PROTECTION OF FIRST-AIDERS:** Do not use mouth to mouth if the victim has ingested or inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical advice. Use personal protective equipment.
- NOTE TO PHYSICIAN:** Treat symptomatically.

24 HOURS EMERGENCY: Call CHEMTREC 1-800-424-9300 or 703-527-3887

SECTION #5 FIRE FIGHTING MEASURES

- FLASH POINT, (COC):** > 200°C
- AUTOIGNITION TEMPERATURE (°C):** N/A

SUITABLE EXTINGUISHING MEDIA:	Foam, Dry chemical CO ₂ and water spray.
UNSUITABLE EXTINGUISHING MEDIA:	DO NOT USE A SOLID WATER STREAM AS IT MAY SCATTER AND SPREAD THE FIRE.
HAZARDOUS COMBUSTION PRODUCTS:	Normal combustion products, CO and CO ₂ .
SPECIAL FIRE FIGHTING PROCEDURES:	Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus. Use water to cool fire exposed containers.

SECTION #6 ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:

Except in case of small spillages. The feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

If required, notify relevant authorities according to all applicable regulations.

Evacuate non-essential personnel. For personal protection see section 8.

Stop or contain leak at the source, if safe to do so.

In case of large spillages, alert occupants in downwind areas.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

ADVICE FOR NON-EMERGENCY PERSONNEL:

Do not touch or walk through spilled material.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

ADVICE FOR EMERGENCY PERSONNEL:

Take all appropriate steps to avoid fire, explosion and inhalation hazards to the rescuers including the use of breathing apparatus.

In case of small spillages: normal working clothes are usually adequate.

Large spillages: Chemical resistant clothing, apron. Work gloves (preferably gauntlets) providing adequate chemical resistance. Remarks: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Work helmet, safety shoes or boots. Goggles and/or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection not normally required in normal conditions. A half or full-face respirator with filter(s) for organic vapors (and when applicable: for H₂S would be recommended otherwise. A Self-Contained Breathing Apparatus (SCBA) can be used according to the extent oxygen deficiency is possible

ENVIRONMENTAL PRECAUTIONS:

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. The product should not be allowed to enter drains, water courses or the soil.

METHODS AND MATERIALS FOR CONTAINEMENT AND CLEANING UP:

Dam up. Ground and bond containers when transferring material. Keep in suitable, closed containers for disposal.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Use clean non-sparking tools to collect absorbed material.

SECTION #7 HANDLING AND STORAGE

STORAGE AND HANDLING:

Use appropriate equipment (refer to section 8) whenever manipulating this product. Keep container in a cool and well-ventilated area. Do not enter storage areas and confined spaces unless adequately ventilated.
Keep container tightly closed and sealed until ready for use.

Store and use away from heat, sparks, open flame or any other ignition source

SECTION #8 EXPOSURE CONTROLS / PERSONAL PROTECTION



EXPOSURE LIMITS:
Mineral oil mist:

OSHA (PEL) TWA 5 mg/m³,
NIOSH (REL) TWA 5 mg/m³,
STEL 10 mg/m³

VENTILATION:

Mechanical ventilation is recommended.

RESPIRATORY PROTECTION:

If mist present, chemical cartridge respirator is recommended.

GLOVES:

Resistant gloves (Viton, Nitrile, Neoprene) are recommended when handling this material.

EYE PROTECTION:

Chemical safety goggles are recommended.

BODY:

Flame retardant clothing is required.

OTHER PROTECTION:

In confined spaces or where the risk of skin exposure is higher, resistant clothing or apron should be worn. Security boots.

SECTION #9 PHYSICAL DATA

PHYSICAL STATE AT 25°C	Liquid
APPEARANCE AND ODOR:	Yellowish to amber with bland odor
INITIAL BOILING POINT:	≥ 280°C
EVAPORATION RATE:	Negligible
LOWER FLAMMABILITY LIMITS:	0.9%
UPPER FLAMMABILITY LIMITS:	N/A
DENSITY (g/cm³ at 15°C):	0,90 to 0,92
VAPOR PRESSURE (mm Hg at 20°C):	Negligible
SOLUBILITY IN WATER:	Negligible
VISCOSITY (cSt at 40°C):	57 - 65
VISCOSITY (cSt at 100°C):	6.5 – 6.7

SECTION #10 STABILITY AND REACTIVITY

STABILITY:	Stable. Unstable if heated to its decomposition it emits toxic fumes of carbon monoxide, carbon dioxide, aldehydes and other decomposition products.
CONDITIONS TO AVOID:	Avoid excessive heat, open flames and formation of oil mist.
PRODUCTS TO AVOID:	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Normal combustion products
POLYMERIZATION:	Will not occur

SECTION #11 TOXICOLOGICAL INFORMATION

SPECIES	LD ₅₀ ORAL	LD ₅₀ DERMAL	LC ₅₀ INHALATION	HOURS
Rat	> 6000 mg/Kg	N/D	N/A	---

CHRONIC EFFECTS ON HUMANS:

Minimally toxic, Negligible hazard at ambient/normal temperature. This product should not be harmful through inhalation. Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea and in the case of hot mist, it can cause an irritation to the respiratory passages

CARCINOGENIC EFFECTS:

Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. National Toxicology Program (NTP).

TERATOGENICITY/MUTAGENICITY:

This product has no teratogenic or mutagenic effects known.

OTHER TOXIC EFFECTS ON HUMANS:

Repeated exposure may cause skin dryness and cracking.

SECTION #12 ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS:

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.

BIODEGRADABILITY: NOT READILY BIODEGRADABLE.

SECTION #13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Consult relevant local authorities. Reclaim or dispose of at a licensed waste disposal company. Incinerate with approval of appropriate local authority.

SECTION #14 TRANSPORTATION INFORMATION

TRANSPORTATION in CANADA (TDG)

not regulated

SHIPPING NAME: None
UN NUMBER: None
CLASS DESCRIPTION: None

Other agencies:
USDOT: Not regulated by that agency as a hazardous material.
IMO/IMDG (SEA): Not regulated as a hazardous material for maritime transport.

IATA (AIR): Not regulated as a hazardous material for air transport.
ADNR (INLAND WATERWAY TRANSPORT): Not regulated by that agency as a hazardous material.
ADR/RID: Not regulated as a hazardous material for land transport.

SECTION #15 REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) (SOR/2015/17) and the Safety Data Sheet (SDS) contains all the information required by the HPR.

THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.

DSL/NDSL Status: This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act. This product and/or all components are listed on the U.S. EPA TSCA Inventory.

Other Regulatory Status: No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L for total oil and grease. Provincial criteria are likely and should be requested when notifying provincial authorities.

INTERNATIONAL REGULATIONS:

U.S. Federal Regulations:

TSCA 8(b) inventory: All components are listed.

SARA 302/304/311/312 extremely hazardous substances:

To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

SARA 302/304 emergency planning and notification:

To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

SARA 302/304/311/312 hazardous chemicals:

Distillates (petroleum), hydrotreated light

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Distillates (petroleum), hydrotreated light: Delayed (chronic) health hazard

SARA 313

This product contains no chemicals in excess of the applicable minimum concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Table 372.65).

Clean Water Act (CWA) 307: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Water Act (CWA) 311: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Air Act (CAA) 112 accidental release prevention: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Air Act (CAA) 112 regulated flammable substances: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Air Act (CAA) 112 regulated toxic substances: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

STATES REGULATIONS:

To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

California Proposition 65: To the best of our knowledge, there are no Proposition 65 chemicals present in this product at levels that would require warning under the California Safe Drinking Water and Toxic Enforcement Act.

OTHER INTERNATIONAL LISTS:

Australia inventory (AICS): This material is listed or exempted.

China inventory (IECSC): This material is listed or exempted.

EUROPE (EINECS/ELINCS/NLP): This material is listed or exempted.

Japan inventory: Not determined.

Korea inventory (KECL): This material is listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.

Philippines inventory (PICCS): This material is listed or exempted.

SECTION #16 OTHER INFORMATION

Label requirements: None (based on WHMIS)

Other Hazardous System Classification: According to the **NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) and Hazardous Materials Identification System (HMIS, USA):**

NFPA		HMIS	
0	HEALTH	0	NO SIGNIFICANT RISK
1	FLAMMABILITY	1	PRESENT A WEAK RISK
0	REACTIVITY	0	NO SIGNIFICANT RISK
	INDIVIDUAL PROTECTION	B	Eye protection and gloves are recommended

Prepared by: Maria Cristina Martinez

Revised on: January 5, 2018, by André St-Jean, Chemist

We believe that technical information and recommendations contained herein to be reliable and accurate. However, we provide these data without warranty or guarantee of any kind, expressed or implied. We assume no responsibility for any loss, damage, or expense, direct or consequential, arising from the use of products described herein.