

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name SYNTHETIC OIL 179

Version # 06

Revision date May-11-2011

CAS # Mixture

Product Code SYNTHETIC OIL 179

Product use Lubricating Oil

Manufacturer information Nye Lubricants, Inc.

12 Howland Road

Fairhaven, MA 02719 US

508-996-6721

CHEMTREC 1-800-424-9300

2. Hazards Identification

Emergency overview Prolonged and/or repeated skin contact may result in mild irritation or redness. May be ignited by

heat, sparks or flames. Contact with eyes may cause irritation. Health injuries are not known or expected under normal use.

OSHA regulatory status This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Skin contact. Eye contact.

Eyes Contact with eyes may cause irritation.

Skin Prolonged and/or repeated skin contact may result in mild irritation or redness.

Inhalation Health injuries are not known or expected under normal use.

Ingestion Health injuries are not known or expected under normal use.

Target organs Eyes. Skin.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin contact Wash off with soap and water. Get medical attention if symptoms occur. Wash clothing separately before reuse.

Inhalation If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention.

Ingestion If ingestion of a large amount does occur, seek medical attention. 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 to a victim who is unconscious or is having convulsions.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria. Not combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

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

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Protection of firefighters

Protective equipment and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk. Move containers from fire area if you can do so without risk.

Hazardous combustion products

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of phosphorus.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Observe precautions from other sections.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water. Prevent entry into

waterways, sewers, basements or confined areas.

Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the

flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Soak up with inert absorbent material. Absorb in vermiculite, dry sand or earth and place into containers. Clean contaminated surface thoroughly. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS. Clean up spills immediately, observing precautions in Protective Equipment section.

Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Handling Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Avoid prolonged or repeated skin contact with this material. Avoid breathing gas/vapors/mist/fumes. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. Do not take internally. Do not taste or swallow. Avoid contact with eyes. Wash thoroughly after handling. Avoid release to the environment. Handle and open container with care.

Storage Keep away from heat and sources of ignition. Store in cool place. Store in a closed container away from incompatible materials. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection Wear suitable protective clothing. Wear nitrile, neoprene, PVC or viton gloves.

Respiratory protection An air purifying respirator with an organic vapor cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits, or if irritation or symptoms are experienced. Respiratory protection must be provided in accordance with 29 CFR 1910.134. No personal respiratory protective equipment normally required.

General hygiene considerations

When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling. Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Appearance Not available.

Physical state Liquid.

Form Liquid. Liquid

Color Light yellow

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Odor Slight

Flash point 473 °F (245 °C) Cleveland Open Cup

Pour point -79.6 °F (-62 °C)

Other data

Density 0.825 g/cm³

Flash point class Combustible IIIB

Kinematic viscosity 28.5 cSt

Kinematic viscosity temp 104 °F (40 °C)

Shelf life 4 years

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions. Stable.

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials Strong acids, alkalies and oxidizing agents.

Hazardous decomposition

products

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of phosphorus.

Toxicological data

11. Toxicological Information

Product Test Results

SYNTHETIC OIL 179 (Mixture) Acute Dermal LD50 Rabbit: 3936.22 g/kg estimated

Acute Oral LD50 Chicken: 2491.28 g/kg estimated

Acute Oral LD50 Mouse: 647.733 g/kg estimated

Acute Oral LD50 Rat: 1893.37 g/kg estimated

Acute Other LD50 Cat: 49825.6 mg/kg estimated

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC and NTP.

Further information This product has no known adverse effect on human health.

Ecotoxicological data

12. Ecological Information

Product Test Results

SYNTHETIC OIL 179 (Mixture) LC50 Fish: 14984.9 mg/l 96.00 hours estimated

* Estimates for product may be based on additional component data not shown.

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Components of this product have been identified as having potential environmental concerns.

Persistence and

degradability

Not available.

13. Disposal Considerations

Disposal instructions Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

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

14. Transport Information

DOT

Not regulated as dangerous goods.

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15. Regulatory Information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Chemical Substances (AICS) No

Canada Domestic Substances List (DSL) No

Canada Non-Domestic Substances List (NDSL) No

China Inventory of Existing Chemical Substances in China (IECSC) No

Europe European Inventory of Existing Commercial Chemical Substances (EINECS) No

Europe European List of Notified Chemical Substances (ELINCS) No

Japan Inventory of Existing and New Chemical Substances (ENCS) No

Korea Existing Chemicals List (ECL) No

New Zealand New Zealand Inventory No

Philippines Philippine Inventory of Chemicals and Chemical Substances No (PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

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

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 0

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1

Instability: 0

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. Nye Lubricants, Inc. makes no warranty with respect thereto and disclaims all liability with respect thereon. The information in the sheet was written based on the best knowledge and experience currently available.

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This data sheet contains changes from the previous

version in section(s):

This document has undergone significant changes and should be reviewed in its entirety.

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