



MATERIAL SAFETY DATA SHEET

Product name: Hilti Two Stroke Oil (ALCO-No Smoke Two Stroke Oil)
Description: Petroleum mineral oil and fuel additive
Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121
Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (Other countries)

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	TLV:	PEL:	STEL:
Mineral Oil	64742-52-5	NE	NE	NE
Polybutenes	9003-27-4	NE	NE	NE
Distillates (petroleum) hydrotreated middle,	64742-46-7	NE	NE	NE
Hydrotreated kerosene	64742-47-8	NE	NE	NE
Polyolefin amide alkyleneamine borate	ACC:17799	NE	NE	NE
Mineral oil	64741-88-4	NE	NE	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. ACC=Accession number – substance has been claimed as confidential business information on TSCA Registry

PHYSICAL DATA

Appearance:	Blue liquid	Odor:	Mineral oil
Vapor Density: (air = 1)	>1	Vapor Pressure:	Not determined
Boiling Point:	> 250° C / 482° F	VOC Content:	Not determined
Evaporation Rate:	Not determined	Solubility in Water:	Insoluble
Specific Gravity:	0.88 @ 15° C / 59° F	pH:	Not determined

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	82 C / 180° F	Flammable Limits:	Not determined
Extinguishing Media:	Carbon Dioxide, Dry Chemical, Foam, Water fog		
Special Fire Fighting Procedures:	Use water spray to cool containers. Use a self-contained breathing apparatus when fighting fires involving chemicals.		
Unusual Fire and Explosion Hazards:	None known. Thermal decomposition products can be formed.		

REACTIVITY DATA

Stability:	Stable.
Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong oxidizers
Decomposition Products:	Thermal decomposition can yield CO, acrid smoke, and irritating fumes.
Conditions to Avoid:	Flames, extreme heat

HEALTH HAZARD DATA

Known Hazards:	Can cause irritation.
Signs and Symptoms of Exposure:	Eyes: Can cause irritation. Skin: Can cause irritation. Prolonged skin exposure may cause dermatitis. Inhalation: Breathing mists may cause dizziness. Ingestion: Ingestion may cause cramps/diarrhea
Routes of Exposure:	Dermal, Eyes
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.

Medical Conditions Aggravated by Exposure: Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with plenty of water. Call a physician if symptoms occur.

Skin: Wash with soap and water. Launder contaminated clothing before reuse.

Inhalation: Move victim to fresh air. Call a physician if symptoms persist.

Ingestion: Seek medical attention. Do not induce vomiting unless directed to by a physician. Never give anything by mouth to an unconscious person. Contains solvent.

Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: General (natural or mechanically induced fresh air movements).

Eye Protection: Safety glasses should be worn in most industrial settings.

Skin Protection: Impermeable (neoprene or rubber) gloves recommended.

Respiratory Protection: None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air-supplied respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions: Store in a cool, dry area. Keep away from open flames/heat sources. Avoid prolonged or repeated contact. Use with adequate ventilation. Always wash thoroughly after handling chemical products. For industrial use only. Keep out of reach of children. Follow label/use instructions.

Spill Procedures: Wear appropriate personal protective equipment. Cover with an absorbent material and place in a salvage container for proper disposal. See disposal guidelines below.

REGULATORY INFORMATION

Hazard Communication: This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard. 29 CFR 1910.1200.

HMIS Codes: Health 1, Flammability 2, Reactivity 0, PPE B

DOT Shipping Name: Not regulated.

TSCA Inventory Status: Chemical components listed on TSCA inventory.

SARA Title III, Section 313: This product does not contain any ingredients which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).

EPA Waste Code(s): Not regulated by EPA as a hazardous waste

Waste Disposal Methods: Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service: 1 800 879 8000 **Technical Service:** 1 800 879 8000

Health / Safety: 1 800 879 6000 Jerry Metcalf (x6704)

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The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.