



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 414 MaxKool Ultra
Company/Address: 102 Barton St
Saint Louis, Missouri, 63104
USA

Synonyms:

Preparation/Revision Date: December 19, 2013

Product Use/Type: Metalworking Fluid

Emergency Phone Number: +1 314 865-4105 (24-hour response number)
+ 1 314 865-4100 (Business hours 8:30AM-5:00PM)
1-800-325-9962 (US & Canada)

Website: www.schaefferoil.com

MSDS Number: 414 Version 1.1

2. Hazards Identification

Appearance: Blue-green color

Odor: Mild

Principal Hazards: Eye, skin and upper respiratory irritation

**Hazardous Materials Information System
(U.S.A)**

Health: 1

Fire: 0

Reactivity: 0

**National Fire Protection Agency System
(U.S.A.)**

Health: 1

Fire: 0

Reactivity: 0

See Section 11 for complete health hazard information

3. Composition and Information on Ingredients

Hazardous Ingredients

Ingredient Name	CAS No.	EU Number	Percentage (by wt.)
Hydrotreated Naphthenic Oil	64742-52-5	265-155-0	20-30
Potassium Hydroxide	1310-59-30	215-181-3	0.1-5

Product Name: 414 MaxKool Ultra

4. First Aid Measures

Eyes: Immediately flush eyes with water for at least 15 minutes. Seek medical attention immediately

Skin: Remove contaminated clothing and wash before reuse. Wash skin with large amounts of soap and water. Seek medical attention if irritation or rash develops.

Ingestion: Do not induce vomiting. Do not administer anything by mouth to an unconscious person. If conscious, offer water to drink. Seek medical attention immediately.

Inhalation: Remove victim to fresh air. If breathing becomes difficult administer oxygen if needed. If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Seek medical attention immediately if breathing becomes difficult or symptoms persist.

5. Fire Fighting Measures:

Flash Point: N/A, Aqueous Solution

Extinguishing Media: Residue will burn after water evaporates. Use dry chemical foam, carbon dioxide, or water-spray

Firefighting Procedures: As in any fire wear a self contained breathing apparatus pressure demand, MSHA/NIOSH (Approved or Equivalent) and full protective gear

Unusual Fire & Explosion: None expected

Hazards: None expected

6. Accidental Release Measures

Spill Procedures and Clean up methods: Use absorbent materials to contain spill. Collect used absorbent material and discard as dictated by Federal, State and local laws and regulations. Keep out of sewers and watercourses

Personal Precautions: Wear appropriate personal protective equipment when cleaning up a spill

Environmental Precautions: None currently known

7. Handling & Storage

Handling: Avoid all contact of product with eyes and skin. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow or inhale vapors. Do not eat, drink or smoke in work areas.

Storage: Do not store product concentrate at elevated temperatures. Do not store near food or feed products. If product is frozen the stability can be compromised. Thaw completely and evaluate.

Product Name: 414 MaxKool Ultra

8. Exposure Controls and Personal Protection

Occupational Exposure Limits

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Hydrotreated Naphthenic Oil	5 mg/m ³		5 mg/m ³	
Potassium Hydroxide	2 mg/m ³		2 mg/m ³	

(s)-Skin exposure (p) proposed limit (c) – Ceiling limit (l) Recommended exposure limit
(u) supplier limit (N/E) – not established

Other Exposure Limits

Engineering Controls: In general normal shop ventilation is adequate. In instances when high mist levels occur or when machines are placed close together splash guards and/or mist collectors are recommended to avoid the possibility of respiratory irritation.

Personal Protective Equipment

Gloves: Impervious gloves such as latex or nitrile are highly recommended

Protective Clothing: Chemical impervious apron

Eye Protection: Chemical goggles or face shield

Respiratory Protection: In applications containing time weighted exposures of 0.5 to 5 mg/m³ it is recommended that inhalation can be reduced through improved ventilation or a mist collection process. In the event that these methods are not applicable it is recommended that the use of a air purifying half mask respirator, standard or disposable type equipped with any P or R series particulate filter. If continuous exposure exceeds 5 mg/m³ it is highly recommended to use an air purifying respirator equipped with a hood or helmet and a HEPA filter. If persistent respiratory problems occur when mist levels are less than 0.5 mg/m³ it is then the individual's responsibility to seek a recommendation from a qualified health care provider for personalized respiratory protection.

9. Physical and Chemical Properties

Flash Point: N/A Aqueous Solution

Specific Gravity: 0.996 +/-0.02

Upper Flammable Limit (UEL): Not determined

Lower Flammable Limit (LEL): Not determined

Vapor Pressure: Not determined

Vapor Density (air =1): Not determined

Percent Volatile: Nil

Evaporation Rate: Like water when concentrate is diluted

pH (neat) : 10.1 +/-0.2

ph (5% solution): 9.5 +/- 0.2

Boiling Point: 250° to 350°F/121° to 177°C

Melting Point: N/A

Appearance: Blue-green color

Odor: Mild

Solubility in Water: Completely soluble

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise specified

Product Name: 414 MaxKool Ultra

10. Stability and Reactivity

Stability: Stable under normal conditions

Materials to Avoid: Strong Acids, bases and oxidizers

Polymerization: None expected to occur

Thermal Decomposition: Not determined

Conditions to Avoid: Use as directed

11. Toxicological Information:

Routes of Exposure: Skin, eyes, ingestion and inhalation

Target Organs: Skin, eyes and upper respiratory tract

Acute Exposure

Ingestion: Not likely to be toxic. May cause irritation to the mouth, throat or stomach, nausea, diarrhea or vomiting. If ingested do not induce vomiting

Eye Contact: May cause severe irritation (tears, blurred vision and redness)

Skin Contact: Concentrate may cause skin to be irritated. Prolonged exposure of this material may cause moderate skin irritation. May cause drying and defatting of the skin. Skin irritation can also occur when diluted product becomes contaminated with certain oils, dissolved metals or when diluted mix ratio is too strong.

Inhalation: Concentrate will not produce vapors unless heated to temperatures above 300°F (149°C). Inhalation of diluted mix can occur in applications where high mist levels are generated can cause irritation of the upper respiratory tract. OSHA has set a Permissible Exposure Limit of 15 mg/m³ for any airborne particulate as a nuisance level of exposure. NIOSH has set a Recommended Exposure Limit of 0.5 mg/m³ for metalworking fluid mist.

Dermal Sensitization: Product is considered to be a dermal sensitizer

Inhalation Sensitization:

Carcinogenicity: Product does not contain any components listed by ACGIH, IRAC, NIOSH, NTP or OSHA

Additional Toxicological Information:

No data available to indicate the product or any of its components are present at greater than 0.1% are mutagenic, genotoxic or teratogenic.

12. Environmental and Ecological Information

Ecotoxicity

This material is not expected to be harmful to aquatic life

Environmental Fate: Not known or expected under normal use

Biodegradation: Not established

Bioaccumulation: Not established

Water Class Hazard (Germany): WK/2

Product Name: 414 MaxKool Ultra

13. Disposal Considerations

Waste Handling and Disposal: This product in its neat state when discarded or disposed of is not a hazardous waste according to Federal Regulations 40CFR 261.4 (b)(4). Dispose of product in accordance with all applicable Federal, State and local laws and regulations. Under RCRA, it is the responsibility of the user of this product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Do not re-use empty containers.

14. Transport Information

US DOT Classification Non-Bulk/Bulk: Not regulated Non-Hazardous

IMDG Classification: Not Regulated Non-Hazardous

IATA/ICAO Classification: Not Regulated Non-Hazardous

15. Regulatory Information

Hazard Symbols



Xi Irritant

R36 – irritating to eyes R43 may cause sensitization by skin contact

US Regulations

TSCA Inventory: All of the components in this material are on the US TSCA Inventory or are exempt.

State of California Proposition 65: This product does not contain any of the chemicals that are listed on the State of California's Proposition 65 List as potential cancer causing agents or reproductive toxins

US EPA SARA Title III and CERCLA Listings and Reportable Quantities

This product contains 0.1 to 1% of Potassium Hydroxide CAS 1310-58-3

US EPA Section 311/313 Classifications

Acute (Immediate)	Chronic (Delayed)	Fire	Reactive	Pressure Generating
X				

US EPA Section 313 Chemicals

Potassium Hydroxide CAS #1310-58-3 0.1-5%

US Tariff Heading Number: 3403.99.0000

Schedule B Number: 3403.99.0000

Other Regulations:

Canada: All of the ingredients of this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List

Canadian WHMIS Classifications and Symbols:

EEC: All components are in compliance with the EC Seventh Amendment Directive 92/32/EEC

Product Name: 414 MaxKool Ultra

16. Other Information

For additional information call +1 314-865-4100 (outside the US and Canada) or 1-800-325-9962 inside the United States and Canada.

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