

Material Safety Data Sheet



Ecolink NF-45 Industrial Metal Cleaner

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FOR CHEMICAL EMERGENCIES
Call InfoTrak
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Section I: Product Identification

Product name: ECOLINK NF-45
Industrial Metal Cleaner
Synonym: Alkyl Bromide
Molecular Formula: See Section II

The "Plain English" Section

Material Safety Data Sheets can be confusing. Federal law requires us to print a great deal of technical information, which probably won't help the non-scientist. ECOLINK includes this "PLAIN ENGLISH" section, written to address the questions and concerns of the average person. If you have additional health, safety or product questions, don't hesitate to call us at 800/886-8240.

Health Hazards: ECOLINK NF-45 is an industrial chemical. We call it "environmentally preferred" because it is intended to replace products that are more hazardous, (MEK, trichloroethylene, mineral spirits, Perk, etc.). This does not mean that ECOLINK NF-45 is completely harmless. It is strong enough to remove tough industrial soils, so it can irritate your skin. We suggest you wear gloves, and avoid extended exposure to unprotected skin. Don't get it in your eyes, or breath large amounts of the vapor, (it will dry out your nasal passages). For more exposure and first aid information, Please read through this MSDS.

Flashpoint: ECOLINK NF-45 does not have a flashpoint. Under virtually all industrial circumstances and conditions, this material will not burn, (under exactly the right conditions, it can be made to ignite). Combustion in ordinary use isn't a big concern but if you want to discuss a specific application, please call us. We do not recommend using this, or any other industrial solvent, around welding or hot work areas.

Disposal: ECOLINK NF-45 is a halogenated solvent. Liquid waste that is captured after the cleaning process must be disposed of according to certain specific guidelines. Additionally, once this material is contaminated with whatever you are cleaning, the resulting mixture may fall under a hazardous classification, depending on whether or not the material you are cleaning is hazardous. If you aren't sure how to dispose of this material, give us a call and we will help you make the right decisions. If you are not sure how to dispose of the used ECOLINK NF-45 give us a call and we will help you make the right decision.

Section II: Hazardous Components

Chemical Name	n - Propyl Bromide
CAS No.	106-94-5
Approx. wt. %	40-50%
Exposure	OSHA-PEL – N/E ACGIH TLV - 10 ppm (50 mg/m3)

Chemical Name	1,1,1,3,3-Pentafluorobutane
CAS No.	406-58-6
Approx. wt. %	50-60%
Exposure	OSHA-PEL – N/E

n-Propyl Bromide is listed as a reproductive toxin under the California Safe Drinking Water Act (Proposition 65).

RCRA REGULATED:	No
CERCLA (superfund):	No
ALL MATERIALS IN PRODUCT ARE TSCA LISTED.	
DOT Regulated:	No
DOT Haz. Class:	None
DOT Shipping Name:	N/A
DOT Number:	N/A

Section III: Physical Data

Boiling Point:	45°C @ 760 mm Hg
Specific Gravity:	1.30
Vapor Pressure:	298 mm Hg @ 20°C
Melting Point:	N/A
Vapor Density (AIR=1):	>1.0
Evaporation Rate (Ether =1):	< 1
Solubility In Water:	Negligible
Appearance & Odor:	Clear, colorless liquid with characteristic odor.

Section IV: Fire & Explosion Hazard Data

Flash Point (Method): None (TCC)

Flammable Limits:

LEL: NE
UEL: NE

Extinguishing Media:

Foam, CO₂, dry chemical.

Special Fire Fighting Procedures:

Keep fire exposed containers cool with water. Fire fighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate gear and chemical resistant personal protective equipment.

Unusual Fire & Explosion Hazards:

Containers exposed to flame or high heat may explode. Use water to cool containers. In fire, toxic gases may be released.

Section V: Reactivity Data

Stability: Stable

Conditions to Avoid:

Sources of ignition such as sparks, hot spots, welding, flames and cigarettes. Ignition/flash may result if concentration of product is in the flammable range (See section IV for LEL and UEL values).

Incompatibility (materials to avoid) : Not compatible with certain plastics & rubber, strong oxidizers, strong acids. Test all non-metals prior to use.

Hazardous Decomposition:

May form hydrogen bromide, hydrogen fluoride, and oxides of carbon.

Hazardous Polymerization:

Will Not Occur.

Section VI: Health Hazard Data

Primary Routes of Exposure:

Oral, inhalation, and skin

Ingestion:

Swallowing large amounts may be harmful, by causing gastrointestinal irritation.

Inhalation:

Breathing large amounts may be harmful, by causing nose, throat, respiratory tract irritation, and effecting the central nervous system causing drowsiness, dizziness and/or possible unconsciousness.

Eyes:

Irritant. Liquid contact will irritate eyes and may cause stinging, tearing and redness.

Skin or Contact:

May cause mild irritation or redness and burning.

First Aid:

Ingestion:

Seek medical attention immediately. If individual is drowsy or unconscious, do not give anything by mouth; place individual on left side with head down. If conscious, give 1-2 glasses of water. Contact medical facility or poison control center for advice about whether to induce vomiting.

Inhalation:

Remove to fresh air, if breathing is difficult give oxygen; if breathing has stopped, perform artificial respiration. Keep person warm and quiet. Seek medical attention.

Eyes:

Irrigate immediately with water for at least 15 minutes. Get medical attention if irritation persists.

Skin:

Wash with soap and water. Thoroughly clean contaminated clothing and shoes before reuse. If symptoms persist, seek medical attention.

Carcinogen:

NTP – Not Listed
IARC Monographs – None
OSHA REGS – Not Regulated

Section VII: Precautions for Safe Handling

HMIS Information:

Health – 3 / Reactivity – 0
Flammability – 0 Personal Protection – B

HMIS Definition:

0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Extreme

“/” in the Health Category denotes material does not target any major organs.

“*” in the Health Category denotes material may target certain organs.

Eye Protection:

Safety glasses and splash protection required.

Protective Gloves:

Viton ® or Norfoil gloves are recommended. Nitrile and Butyl rubber gloves provide splash protection only.

Respiratory Protection:

Not required under conditions of normal use. If vapor/mist is present use NIOSH certified organic vapor mask.

Ventilation:

Local exhaust/hood or fan may be used; adequate ventilation is extremely important.

Other Protective Clothing:

None required under normal use.

Work Practices:

Proper ventilation is required, avoid breathing concentrated vapors/fumes. All equipment should be properly grounded. Treat this chemical with respect and follow all MSDS instructions.

Section VIII: Control Measures

Small Spill: Absorb liquid on vermiculite, floor absorbent, or other inert absorbent. Place in suitable labeled container for disposal.

Large Spill: Ventilate contaminated area. Eliminate all ignition sources, (flares, flames including pilot lights, electrical sparks). **Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed.** Stop spill at source. Prevent from entering drains, sewers, streams, etc. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Waste Disposal Method: ECOLINK NF-45 may be disposed of as an industrial waste in a manner acceptable to good waste management practices and in compliance with applicable local, state, and federal regulations.

Precautions To Be Taken In Handling & Storing: Material should be stored and used only in a cool dry, well ventilated area. All metal pails or drums should be grounded and/or bonded when material is transferred. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature may result in ignition.

Other Precautions: Keep this and all chemicals out of the reach of children.

Section IX: Part Number and Packaging

<u>Product Name</u>	<u>Part No.</u>	<u>Packaging</u>
ECOLINK NF-45	2020-55	550 pound drum
ECOLINK NF-45	2020-5	5 gallon pail
ECOLINK NF-45	2020-1	4 x 1 gallon case

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END OF MSDS