

SAFETY DATA SHEET



FORCE
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product identifier

Product name: AMCO 4918

Other means of identification

Product code: 672

Recommended use of the chemical and restrictions on use

Recommended use: Metal Cleaning Solution

Details of the supplier of the safety data sheet

Manufacturer: Force Industries Division.
28 Industrial Blvd. Paoli, PA 19301.

Emergency Telephone number

For hazardous material incidents only, call CHEMTREC Emergency Response Number:
1-800-424-9300.

For all other inquiries about this product, call Force Industries Division at 610-647-3575.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritation (Category 2A)

Skin irritation (Category 2)

Chronic aquatic toxicity (Category 3)

Specific target organ toxicity – single exposure (Category 3) - respiratory

2.2 GHS Label elements, including precautionary statements

Emergency overview

Appearance: Water Clear
Physical state: Liquid
Odor: Faint hydrocarbon

WARNING



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Hazard statement(s):

H226: Flammable liquid
H305: May be harmful if swallowed and enters airways
H315: Causes skin irritation
H319: Causes eye irritation
H335: May cause respiratory irritation
H412: Harmful to aquatic life with long lasting effects

Precautionary statement(s):

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS –none

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P310 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P403+P233 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Weight %</u>
Isoparaffinic hydrocarbon	64742-48-9	265-150-3	70 - 90
Di-propylene glycol monomethyl ether	34590-94-8	252-104-2	5 – 20
Octylphenoxypolyethoxyethanol	9002-93-1	NA	1 - 10

Others, if any, are considered non-hazardous.



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, remove person to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician if irritation develops.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if irritation persists.

If swallowed

Do not induce vomiting unless directed to do so by medical personnel. If person is alert, have them rinse their mouth with water. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No immediate medical attention is required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

Static electricity may accumulate and create a fire hazard. Ground containers.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus and full protective clothing.
DO NOT USE WATER AS MATERIAL WILL FLOAT; EXCLUDE AIR



SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Eliminate potential ignition sources, contain spill, absorb and sweep up. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes. Avoid prolonged contact with skin and clothing. Provide appropriate exhaust ventilation. Wash thoroughly with soap and water after handling. Do not store near open flame, heat or other sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store away from strong oxidizing agents. DO NOT FREEZE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	OSHA PEL	OSHA TWA	ACGIH	ACGIH TWA
Isoparaffinic hydrocarbon	400 ppm	400 ppm	300 ppm	300 ppm
Di-propylene glycol monomethyl ether	100 ppm 600 mg/m ³	100 ppm 600 mg/m ³	100 ppm	100 ppm

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.



Personal protective equipment

Eye/face protection

Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Wear protective clothing if needed to avoid skin contact and contamination of personal clothing.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Discharge into the environment must be avoided.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Odor:	Faint hydrocarbon
Color:	Clear
Flash point:	125 - 130° F.
Boiling point (°F @ 760 mmHg):	>300
Percent volatiles by volume:	~71
Evaporation rate (butyl acetate = 1):	< 1.0
Specific gravity:	0.81
Water solubility:	Very slight

SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical stability

Stable under recommended storage conditions

10.2 Possibility of hazardous reactions

Will not occur

10.3 Conditions to avoid

Excessive heat

10.4 Incompatible materials

Avoid strong oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide or carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Component toxicity

Components	LD50/Rabbit (Dermal)	LD50/Oral/Rat
Isoparaffinic hydrocarbon	>5000 mg/kg	>5000 mg/kg
Di-propylene glycol monomethyl ether	>19080 mg/kg	5225 mg/kg
Octylphenoxyethoxyethanol	8000 mg/kg	1800 mg/kg

Skin corrosion/irritation



Frequent and prolonged contact with skin could cause dermatitis.

Serious eye damage/eye irritation

May cause mild, short lasting discomfort to eyes.

Respiratory sensitization

No data available

Chronic Toxicity and Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

SECTION 12: ECOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

LC50 (Fish, 96 Hr.) 10,000 mg/l (Pimephales promelas)

LC50 (Crustacea, 48 Hr.) >1000 mg/l (Crangon crangon, 96 Hr), 1920 mg/l (Daphnia Magna)

EC50 (Algae) – no data available

EC10 (Bacteria) – 4168 mg/l (Pseudomonas putida)

12.2 Persistence and degradability

Material is biodegradable

12.3 Bio-accumulative potential

For octylphenoxyethoxyethanol, chemical oxygen demand (COD): 2.19 mg/g

12.4 Mobility in soil

Di-propylene glycol monomethyl ether is water soluble and moves readily in soil and water

12.6 Other adverse effects – Harmful to aquatic life with long lasting effects



SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Method

Eliminate potential ignition sources. Contain spill, absorb, and sweep up. Remove to chemical sewer. Flush area to chemical sewer. Use absorbent materials for small spills. Dispose of in accordance with local, state, and federal regulations.

Empty Container:

Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49CFR)

Domestic Ground (NOTE: Exempted from regulations if < 119 gallons)

Proper shipping name: Petroleum Diistillates, n.o.s.
Hazard Class: Combustible liquid
ID and Packing Group number: UN1268, PG III
ERG Guide number: 128

International Air Transportation (ICAO/IATA):

Proper shipping name: Petroleum Diistillates, n.o.s.
Hazard Class: Combustible liquid
ID and Packing Group number: UN1268, PG III
ERG Guide number: 128

International Maritime Organization (IMO/IMDG):

Proper shipping name: Petroleum Diistillates, n.o.s.
Hazard Class: Combustible liquid
ID and Packing Group number: UN1268, PG III
ERG Guide number: 128

Marine Pollutant: No

SECTION 15: REGULATORY INFORMATION

International Inventories

USA (TSCA): Complies

Canadian CEPA: Complies

Federal Regulations

SARA Title III 313 Reportable Substances

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This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA Title III Section 311/312 Hazard Categories:

Acute Health Hazard

CERCLA Section 103: This product has a reportable quantity of 5000 Lbs. Release of more than 5000 Lbs. of this product in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675). Report spills required under federal, state, and local regulations.

California Proposition 65: This product is not considered as a substance that causes cancer under Proposition 65.

Canadian Regulations:

Canadian WHMIS: Class D-2-B

This product has been classified in accordance with the hazard criteria in the CPR and the MSDS contains all the information required by the CPR.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

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H305: May be harmful if swallowed and enters airways
H315: Causes skin irritation
H319: Causes eye irritation
H335: May cause respiratory irritation
H412: Harmful to aquatic life with long lasting effect

HMIS:

Health: 1
Flammability: 2
Reactivity: 0

PREPARATION INFORMATION: Technical Service Department,
Force Industries Division

REVISION DATE: May 17, 2017

SUPERCEDES: July 3, 2007

DISCLAIMER: The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Force Industries makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon. Force Industries warrants only that its products conform to their published specifications and no other express warranty is made with regards thereof. We do not guarantee favorable results, and we assume no liability in connection with the use of the products. They are intended for use by persons having technical skill and knowledge, at their own discretion and risk.