

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

Product identifier

Product name: AMCO 4880 Mankato

Other means of identification

Product code: 794

Recommended use of the chemical and restrictions on use

Recommended use: Lubricant

Details of the supplier of the safety data sheet

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

Emergency Telephone number

For hazardous materials 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.

Revision Date: October 26, 2016

Supersedes: April 25, 2016

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

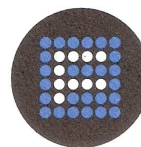
Skin irritation (Category 2)

Eye irritation (Category 2A)

Hazard statement(s):


H226	Flammable liquid
H305	May be harmful if swallowed and enters airways.
H315	Causes skin irritation
H319	Causes serious eye irritation

For the full text of the H-Statements mentioned in this Section, see Section 16.



2.2 GHS Label elements, including precautionary statements

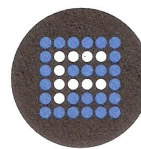
Emergency overview

Appearance: Water clear Physical state: Liquid Odor: Faint Hydrocarbon Signal Word:	Warning
	

Precautionary statement(s)

- 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 doctor/ 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.

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

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Component	CAS No.	EINECS No.	Weight %
Isoparaffinic Hydrocarbon	64742-48-9	265-150-3	70-90

3.1 Others, if any, are non-hazardous and claimed as trade secret.

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. Move out of dangerous area.

EYES: Flush with water for at least 15 minutes to remove all residues. Promptly get medical help.

SKIN: Wash hands with soap and water to remove residue. If rash or burn develops, consult a physician.

INGESTION: Call a physician at once. Do NOT aspirate into lungs. Do not induce vomiting.

INHALATION: Remove to fresh air and keep comfortable for breathing. If dizziness occurs, call a physician.

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 data available

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Use alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

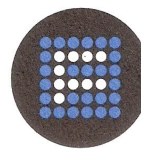
Do not use a direct stream of water. Product will float and may ignite.

5.3 Advice for firefighters

Full protective equipment required. Do NOT use water as AMCO 4880 Mankato will float; exclude air.

5.4 Further information

No data available.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Steps to be taken in case material is released or spilled. Evacuate personnel to safe areas. Keep people away from and up wind of spill/leak. Use personal protective equipment.

6.3 Methods and materials for containment and cleaning up

Small Spill: Absorb liquid on paper vermiculite, floor absorbent or other suitable absorbent material.

Large Spill:

Eliminate all ignition sources of flames including pilot lights, electrical sparks). Person not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source, if possible, dike area of spill to prevent spreading. Liquid may be taken up on sand, clay earth floor absorbent or other absorbent material and place into containers.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

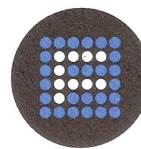
Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts or vapors. Wash hands thoroughly after handling. Static electricity may accumulate and create a fire hazard. Ground containers. Do not expose to intense heat. Pressure build-up could rupture container.

7.2 Conditions for safe storage, including any incompatibilities

Storage areas should be clearly identified, well-illuminated clear of obstructions and accessible. Inspect all incoming containers before storing to ensure they are undamaged and properly labeled. Store in a cool well-ventilated area out of direct sunlight. Store away from incompatible materials. Keep containers tightly closed and protect from damage. Store away from all heat and ignition sources. Empty container may retain product residues; therefore continue to observe all labeled precautions when handling empties. Do not remove labels until container is thoroughly cleaned.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.



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

8.2 Exposure controls

Appropriate engineering controls

Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use NIOSH /MSHA approved respirator whenever exposure limits exceeded. Good general; ventilation (typically 10 air exchanges per hour) should be used. Use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below exposure limits.

Personal protective equipment

Eye/face protection

Chemical splash goggles in compliance with OSHA regulations are advised. However, OSHA regulations also permit other types of eye protection.

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

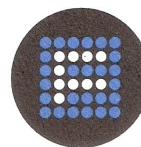
Minimum layer thickness: 0.11 mm

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 advice 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

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

If mist or vapor is release use an air-purifying organic vapor respirator with dust mist filter. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state:	Water clear liquid
Odor:	Faint hydrocarbon odor
Flash point:	54° C min. (TAG Closed Cup)
Vapor pressure:	<0.1 @ 20 °c
Vapor density:	<5
Boiling Point:	above 100 C
Specific gravity:	0.76 – 0.77 @ 22.2°C

9.2 Other safety information

Odor Threshold: 0.1 ppm

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

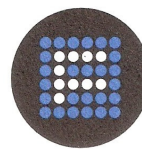
Exposure to excessive heat, open flames and sparks. Avoid conditions that favor the formation of excessive mists and/or fumes.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Combustion can yield carbon monoxide, carbon dioxide and toxic vapors.



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Component toxicity

Components	LC50/Inhalation/6h/Rat	LC50/Dermal	LD50/Oral/Rat
Isoparaffinic Hydrocarbon	1600 ppm	> 3g/kg (rabbit)	>5 g/kg

11.2 Effects of Acute Overexposure:

a. Inhalation: Central nervous system depression evidenced by headache, dizziness, and nausea. In extreme cases, unconsciousness and death may occur.

b. Eyes: May cause severe irritation, redness, tearing and or blurred vision.

c. Skin Contact: Prolonged or repeated contact may cause moderate irritation, defatting and or dermatitis.

d. Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis, which can be fatal.

11.3 Primary Route of Exposure:

Skin, eyes, and inhalation

11.4 Effects of Chronic Exposure:

Repeated contact can cause dermatitis (red, dry itchy skin)

11.5 Target Organs:

Mildly toxic by inhalation

11.6 Reproductive Effects

Not available.

11.7 Carcinogenicity:

Not available.

SECTION 12: ECOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

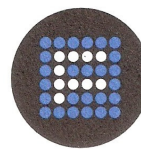
12.1 Toxicity

Components	LC50/96hr/48hr/24hr	EC50/96/48hr/24hr	Bioaccumulation Concentration Factor	No Observable Effect Concentration/96hr/48hr/24 hr
Isoparaffinic Hydrocarbon	>100 mg/L (fish)	>100 mg/L (water flea, 48hr)	No data available	No data available

12.2 Persistence and degradability

Readily biodegradable in water.

12.3 Bio-accumulative potential



Log Pow > 3 Bio-accumulative potential No bioaccumulation data available.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

This product is a RCRA Hazardous waste based on flash point therefore meeting the characteristic of ignitibility. D001

Waste from Residue/Used Products: The user of this material has the responsibility to disposed of unused material, residues and containers in compliance with all Federal, State and Local regulations. Do not contaminate ponds, waterways or ditches with chemical or container

SECTION 14: TRANSPORT INFORMATION**U.S. Department of Transportation Ground (49CFR)**

PROPER SHIPPING NAME: Petroleum Distillates, N.O.S. (Isoparaffinic Hydrocarbon), 3, UN 1268, PG III

DOMESTIC GROUND (NOTE: Exempted from regulations if <119 gallons.)

SECTION 15: REGULATORY INFORMATION**CERCLA Reportable Quantities**

The product does not contain CERCLA Reportable Quantities

SARA Title III Section 311/312 Hazard Categories:

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA Title III 313 Reportable Substances

If listed below components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

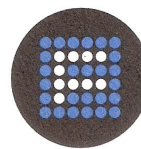
None

Toxic Substance Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification Section 12 (b) of TSCA:

None listed

SAFETY DATA SHEET



FORCE
INDUSTRIES
DIVISION

California Proposition 65

This product does not contain any chemical known in the State of California to cause cancer.

WHIMS HAZARD CLASS: **Class B: Combustible liquid**
Class D-2B: Material causing other toxic effects (Toxic).

Chemical Inventory Status

Unless otherwise noted; this product is in compliance with the inventory listings of the countries shown below. For information listings for countries not shown, contact the Product Regulatory Department.

Canada - DSL (Domestic Substance List): All raw materials used in this product are listed on DSL

USA - TSCA (TOXIC SUBSTANCE CONTROL ACT): All raw materials used in this product are listed on TSCA Inventory.

Europe - All raw materials used in this product are listed on EINECS Inventory.

SECTION 16: OTHER INFORMATION

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

HMS:

Health: 1
Flammability: 2
Reactivity: 0

REVISION DATE: October 26, 2016

SUPERSEDE: April 25, 2016

PREPARATION INFORMATION: Technical Service Department, Force Industries Division

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.