

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires SDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

### SECTION 1. IDENTIFICATION

Product Identifier: Bio-11  
Product Use: Screen Wash, Stain Remover & Degreaser  
Manufactured by: Kor-Chem, Inc.  
5800 Bucknell Drive  
Atlanta, GA 30336

Product Identification # (PIF): 01628  
Emergency Telephone #: 1-800-255-3924  
General Information #: 404-344-9580  
Date Prepared: August 10, 2015  
Revised: October 17, 2022  
Revision: 3

### SECTION 2. HAZARD(S) IDENTIFICATION

GHS Hazard Codification



Signal Word: WARNING

Hazard Class	Category	Code	Hazard Statement
Flammable Liquid	3	H226	Flammable liquid and vapor
Skin Irritation	2	H315	Causes skin irritation
Serious Eye Irritation	2A	H320	Causes eye irritation
STOT, Single Exposure; Narcotic effects	3	H336	May cause drowsiness or dizziness
Hazardous to the Aquatic Environment, Acute Hazard	3	H402	Harmful to aquatic life

Precautionary	Code	Statement
Prevention	P210 P233 P240 P241 P242 P243 P261 P264 P271 P273 P280	Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing fumes/mists/ vapors/sprays. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	P301+P310 P331 P303+P361+P353 P302 + P352 P332+P313 P362 P370+P378 P304+P340 P312 P305+P351+P338 P337+P313	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use foam, dry chemical, carbon dioxide fire extinguishers or water spray for extinction. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	P403+P233 P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	P501	Dispose of contents/container in compliance with all Federal, State/Provincial and local laws and regulations

Description of any hazards not otherwise classified: Repeated or prolonged exposure may cause dermatitis (drying of skin).

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Common Name	CAS #	Concentration Range %
Dibasic Ester	DBE	Mixture	50 – 70
Naphtha (petroleum), heavy alkylate	Heavy alkylate	64741-65-7	5 – 15
Dipropylene glycol methyl ether acetate	DPM Acetate	88917-22-0	15 - 30

### SECTION 4. FIRST AID MEASURES

**Eyes:** Flush well with water for at least 15 minutes, holding eyelids open. Remove any contact lenses and continue rinsing. Seek medical attention if irritation persists.

Skin: Remove immediately all contaminated clothing and launder before reuse. Rinse skin with water/shower. Wash with soap and water. If irritation persists, seek medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing – Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration by way of pocket mask equipped with one-way valve or other proper respiratory device – Do NOT use mouth-to-mouth method if victim inhaled material. Call a physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician.

## SECTION 5. FIRE-FIGHTING MEASURES

Flammability: Class II Combustible Liquid

Flash Point: 138°F (58.9°C)

Extinguishing Media: Foam, dry chemical, carbon dioxide fire extinguishers. Do not spray water directly on fire. Use water spray to cool containers.

Specific hazards arising from chemical: Vapors are heavier than air and may travel along the ground to an ignition source. Readily ignited by static discharge. Do not allow run-off from firefighting to enter drains or water courses.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

Firefighting protective equipment: Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Sensitivity to static discharge: This product is combustible and readily ignited even by static discharge. Grounding equipment is recommended.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (Section 8). Eliminate all sources of ignition – No smoking. Ventilate area. Avoid breathing fumes/mists/ vapors/sprays. Avoid release to the environment – Collect spillage. Wash thoroughly after handling.

For Small Spills: Spilled material may be slippery. Avoid dispersal of material and runoff into soil, waterways, drains and sewers.

Vapor-suppressing foam may be used to reduce vapors. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste with non-sparking tools. Wash walking surfaces with water to reduce slipping hazard. Dispose of contaminated absorbent material in accordance with local, state and federal regulations.

For Large Spills: Large spills cannot occur due to packaging.

## SECTION 7. HANDLING AND STORAGE

Handling: Wear personal protection equipment (Section 8). Use only outdoors or in a well-ventilated area. Avoid breathing fumes/mists/vapors/sprays. Do not handle around sources of ignition. Use proper bonding and grounding during product transfer as described in document NFPA 77. Use explosion-proof equipment and non-sparking tools. Take precautionary measures against static discharge. Vapors are heavier than air and may travel along the ground to an ignition source. Never use welding or cutting torch on or near drum (even empty) because product can ignite explosively. Do not premix with other chemicals. Avoid release to the environment. Do not eat, drink, or smoke in work areas. Wash thoroughly after handling.

Storage: Keep away from heat, flame, or sunlight – keep cool. Keep from freezing. Keep container tightly closed when not in use. Store locked up. Store in a well-ventilated place. Protect from physical damage. Store away from strong oxidizing agents, acids, bases and reducing agents.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Ingredient</u>	<u>CAS #</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>NIOSH</u>
Dibasic Ester	Mixture	1.5ppm	ND	ND
Glycol Ether DPM Acetate	88917-22-0	ND	ND	ND
Petroleum Distillates hydrotreated	64742-47-8	ND	ND	ND

Engineering Controls: Provide adequate ventilation. Keep the risk of exposure to a minimum.

Personal protective equipment:

Eye: Safety glasses with side shields or splash proof goggles and face shield.

Skin: Chemical resistant (impervious) gloves. Normal materials handling clothing.

Respirator: Use NIOSH approved protection if PEL is exceeded.

Other: Use only in a well-ventilated area. Do not eat, drink, or smoke while handling. Wash thoroughly after handling.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid	<b>Upper/Lower flammability limits</b>	Not determined
<b>Odor</b>	Ester	<b>Vapor pressure</b>	Not determined
<b>Odor threshold</b>	Not determined	<b>Vapor density (Air = 1)</b>	Not determined
<b>pH</b>	Not applicable	<b>Specific gravity (water = 1.0)</b>	1.022 g/ml
<b>Melting point</b>	Not determined	<b>Solubility</b>	Negligible in water
<b>Freezing point</b>	Not determined	<b>Partition coefficient</b>	Not determined
<b>Boiling point</b>	Not determined	<b>Auto-ignition temperature</b>	Not determined
<b>Flash point (Closed cup)</b>	184°F (84°C)	<b>Decomposition temperature</b>	Not determined
<b>Evaporation rate (n-butyl acetate=1)</b>	<1	<b>Viscosity</b>	Not determined
<b>Flammability</b>	Class II Combustible	<b>%VOC</b>	95

## SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.  
Chemical stability: Stable under normal, ambient temperature and conditions.  
Possibility of hazardous reactions: Hazardous polymerization will not occur.  
Conditions to avoid: Heat, flame, and sparks. Keep from freezing. Do not mix with other chemicals  
Incompatible materials: Avoid strong oxidizing agents, acids, bases and reducing agents.  
Hazardous combustion products: Carbon monoxide and carbon dioxide.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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Acute and Chronic Toxicity (short and long term):

Oral (LD50 Rat): Not determined  
Dermal (LD50 Rabbit): Not determined  
Inhalation (LC50 Rat): Not determined  
NTP/IARC/OSHA Carcinogen: No

Eye Contact: Causes eye irritation.

Skin Contact: Causes skin irritation. Repeated or prolonged exposure may cause dermatitis (drying of skin).

Inhalation: Inhalation of mists/vapors/sprays may cause irritation of respiratory tract. Overexposure may cause drowsiness or dizziness.

Ingestion: May be harmful if swallowed. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

Other: Persons with severe skin, liver or kidney problems should avoid use.

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## SECTION 12. ECOLOGICAL INFORMATION

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Aquatic Effects:

96h LC-50 (fish): 36 mg/l  
96h EC-50 (invertebrates): >100 mg/l  
48h LC-50 (algae): >100 mg/l

Persistence and degradability: DBE is biodegradable.

Bioaccumulation: Dibasic Ester does not bioaccumulate in the environment.

Mobility: This product is not soluble in water. This product is volatile and may spread in the atmosphere. Mobile in soil.

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## SECTION 13. DISPOSAL CONSIDERATIONS

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Disposal of Wastes: Do not dump into sewers, on the ground or into any waterways. All disposal practices must comply with all Federal, State/Provincial, and local laws and regulations.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied. Do not cut, drill, grind, or weld on or near the container.

RCRA: Not applicable.

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## SECTION 14. TRANSPORT INFORMATION

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United States DOT:

Container of 119 gallons or less:

Combustible Liquid (49 CFR 173.120(b)(2): This material is not regulated under 49 CFR if in a container of 119-gallon capacity or less for ground transportation. Exception CFR 173.150(f)(2): Combustible liquids. This exception does not apply to transportation by vessel or aircraft.

Container of 120 gallons or more:

UN/ID No.: UN1993  
Proper Shipping Name: Flammable Liquids, n.o.s., (Naphtha (petroleum), heavy alkylate, Glycol ether DPM acetate)  
Hazard Class: 3  
Packing Group: III

IATA and IMDG:

UN/ID No.: UN1993  
Proper Shipping Name: Flammable Liquids, n.o.s., (Naphtha (petroleum), heavy alkylate, Glycol ether DPM acetate)  
Hazard Class: 3  
Packing Group: III  
Marine Pollutant (IMDG Code): Not listed (49 CFR 172.101).  
Transportation in bulk (IMDG - Annex II of MARPOL 73/78 and IBC Code): Not offered in bulk for transport overseas.

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## SECTION 15. REGULATORY INFORMATION

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TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

SARA Section 302: The components of this product are either not regulated or regulated, but present in negligible concentrations.

SARA TITLE III Section 311/312:

Immediate (Acute) Health	Yes	Fire Hazard	Yes
Delayed (Chronic) Health	No	Reactive Hazard	No

SARA Title 313: This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels (40 CFR 372).

**CERCLA:** This product does not have a reportable quantity.

**United States Right-To-Know:** CAS# 64742-47-8 Distilled (petroleum), Hydrotreated light – Massachusetts, Pennsylvania, and New Jersey. CAS# 88917-22-0 Dipropylene glycol methyl ether acetate.

**Proposition 65:** This Product contains a chemical known to the State of California to cause cancer. CAS# 64742-47-8 Distillates (petroleum), Hydrotreated light.

**RCRA:** A waste containing this product may have the RCRA hazardous waste no. D001 (Ignitable) (40 CFR 261.22)

**SECTION 16. OTHER INFORMATION**

Date Revised: October 17, 2022

Hazard Ratings (HMIS): Health 1, Flammability 2, Reactivity 0. Personal Protection Rating to be supplied by user based on use conditions.

Carefully read all instructions on label before handling this product.

Keep out of reach of children.

FOR INDUSTRIAL USE ONLY"

Abbreviation	Full Name/Explanation
ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CNS	Central Nervous System
CFR	Code of Federal Regulations
DOT	Department of Transportation
EC	Effective Concentration
HMIS	Hazardous Material Information System
LC	Lethal Concentration
LD	Lethal Dose
NA	Not Applicable
ND	Not Determined
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
VOC	Volatile Organic Compounds

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.

SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.