

SAFETY DATA SHEET

BIOSOL 40

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : BIOSOL 40
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Mildly Alkaline Material
SUPPLIER : WESMAR CO. INC.
SUPPLIER'S ADDRESS : 5720 204TH ST SW, LYNNWOOD, WA 98036
(206) 783-5344
EMERGENCY RESPONSE PHONE NUMBER : PERS: 1-800-633-8253



SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS U.S. – CLASSIFICATION : H302 Harmful if swallowed.
H315 Causes skin irritation
H319 Causes serious eye irritation

LABEL ELEMENTS : **GHS – US HAZARD PICTOGRAMS** The product is classified and labeled according to the Globally Harmonized System (GHS).

HAZARD PICTOGRAMS :



SIGNAL WORD : WARNING
HAZARD STATEMENTS (GHS-US) : H302 Harmful if swallowed.
: H315 Causes skin irritation.
: H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS (GHS-US) : P101 If medical advice is needed, have product container or label at hand.
: P102 Keep out of reach of children.
: P103 Read label before use.
: P264 Wash skin and contaminated clothing thoroughly after handling.
: P270 Do not eat, drink or smoke when using this product.
: P280 Wear suitable protective gloves/protective clothing/eye protection/face protection.
: P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
: P302+P352 : IF ON SKIN: Wash with plenty of soap and water.
: 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.
: P501 Dispose of contents/container in accordance with local/regional/national/international regulations

OSHA HAZARDS : Target Organ Effect (Glycol Ether DPM), D-Limonene: Combustible Liquid, Target Organ Effect, Skin Sensitizer, Irritant
TARGET ORGANS : Kidney, Liver, Nerves (Glycol Ether DPM).

SAFETY DATA SHEET

BIOSOL 40

CLASSIFICATION SYSTEM : NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA RATINGS (SCALE 0-4) : Health = 2, Fire = 0, Reactivity = 0
HMIS RATINGS (SCALE 0-5) : Health = 2, Fire = 0, Reactivity = 0

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTIC DESCRIPTION : Mixtures
: Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
D-Limonene (Citrus Terpenes)	20-30	5989-27-5	227-813-5	Flam Liq Cat 3, Acute Tox Oral Cat 5, Skin Irrit Cat 2, Eye Irrit Cat 2A, Skin Sens Cat 1, Acute Tox Aquatic Cat 1
Dipropylene glycol methyl ether	5-10	34590-94-8	252-104-2	Eye Irrit: Cat 2B
Ethylenediamine Tetraacetate Na salt	1-5	64-02-8	200-573-9	Skin Irrit Cat 2, Eye Dam Cat 2A
Coconut Diethanolamide	10-20	68603-42-9	271-657-0	Skin Irrit Cat 2, Eye Irrit Cat 2B

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Tox = Toxic, STOT = Specific Target Organ Toxicity.

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Show the label where possible.

EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation persists, get immediate medical attention.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. If irritation persists, get immediate medical attention.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION : Remove to fresh air. Get immediate medical attention.

OTHER INSTRUCTIONS : Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Dry chemical, foam, water or carbon dioxide.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS : In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.

UNUSUAL FIRE AND EXPLOSION HAZARDS : No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PROCEDURES : Keep spilled material away from sewage/drainage systems and waterways.

SAFETY DATA SHEET

BIOSOL 40

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING : Use with adequate ventilation. Wear proper protective equipment. Do not mix with water or acids without proper dilution and agitation to prevent a potentially violent reaction.

CONDITIONS FOR SAFE STORAGE : Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE) : The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	OSHA PEL – TWA	ACGIH – TLV	ACGIH – STEL
D-Limonene (Citrus Terpenes)	Not Established	Not Established	Not Established
Dipropylene glycol methyl ether	100 ppm, 600mg/m ³	100 ppm	150 ppm
Ethylenediamine Tetraacetate (EDTA)	Not Established	Not Established	Not Established
Coconut Diethanolamide	Not Established	Not Established	Not Established

EYE PROTECTION : Wear chemical splash goggles or face shield.

SKIN PROTECTION : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.

RESPIRATORY PROTECTION : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

VENTILATION : Ensure adequate ventilation.

ADDITIONAL MEASURES : Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear amber liquid with citrus odor.

ODOR : Mild odor

ODOR THRESHOLD : Not available

PH : 9.5 - 10.5 AS IS

MELTING POINT/FREEZING POINT : Not available

BOILING POINT : Approx. 212° F.

FLASH POINT : Non flammable, non combustible

SAFETY DATA SHEET

BIOSOL 40

EVAPORATION RATE	: Not available
FLAMMABILITY	: Non flammable-Non combustible
LOWER FLAMMABILITY LIMIT	: Not available
UPPER FLAMMABILITY LIMIT	: Not available
VAPOR PRESSURE	: Not available
VAPOR DENSITY (AIR=1)	: Not available
RELATIVE DENSITY	: 0.96
SOLUBILITY IN WATER	: Soluble in water
PARTITION COEFFICIENT n- OCTANOL/WATER	: Not available
AUTOIGNITION TEMPERATURE	: Not available
DECOMPOSITION TEMPERATURE	: Not available

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	: Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID	: No decomposition if used according to specifications
INCOMPATIBLE MATERIALS	: Keep away from strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	: No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	: D-Limonene (Citrus Terpenes)
ACUTE TOXICITY	: LD50 Oral (rat): >5000 mg/kg. LD50 Dermal (rabbit): >5,000 mg/kg, RD50 Inhalation (mice): > 1,000 mg/kg.
IRRITATION	: Prolonged or repeated exposure can cause drying or dermatitis of skin.
BIOACCUMULATION	: No appreciable bio-concentration is expected in the environment.
CARCINOGENICITY	: This product is not classified as a carcinogen by OSHA, IARC, ACGIH or NTP.
TOXICOLOGICAL INFORMATION	: Dipropylene Glycol Methyl Ether
ACUTE TOXICITY	: LD50 values: Oral LD50: 5152 mg/kg (rat). LC50 dermal and inhalation: Not listed. Eyes: Rabbit: Mild Irritation: 25 hours.
CARCINOGENICITY	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.
TOXICOLOGICAL INFORMATION	: Ethylenediamine Tetraacetate
ACUTE TOXICITY	: LD50 Oral (rat): 630 - 1,260 mg/kg,
INHALATION LC50	: No data available
DERMAL LD50	: No data available
OTHER INFORMATION ON ACUTE TOXICITY	: No data available
TOXICOLOGICAL INFORMATION	: Coconut Diethanolamide
ACUTE TOXICITY	: LD50 Oral (rat): > 5,000 mg/kg, LD50 Dermal (rabbit): > 2000 mg/kg.
ACUTE EFFECTS	: May be harmful in contact with skin.
CHRONIC EFFECTS	: Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.
SYMPTOMS AND TARGET ORGANS	: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain

SAFETY DATA SHEET

BIOSOL 40

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION : **D-Limonene (Citrus Terpenes)**
ECOTOXICITY : There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade citrus terpenes, decreasing their toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion or sludge at or beneath the surface of a body of water

MOBILITY : Citrus Terpenes volatilize rapidly.
PERSISTENCE AND DEGRADABILITY : Readily biodegradable.
BIOACCUMULATIVE POTENTIAL : Bio-concentration is not expected to occur.

ECOLOGICAL INFORMATION : **Dipropylene Glycol Methyl Ether**
ECOTOXICITY (aquatic and terrestrial, where available):
ACUTE FISH TOXICITY : LC50 / 96 hours Fathead Minnow - >10,000 mg/L
TOXICITY TO DAPHNIA : EC50 / 48 hours Water flea - 1,919 mg/L
PERSISTENCE AND DEGRADABILITY : No data available.
BIOACCUMULATIVE POTENTIAL : No data available.

ECOLOGICAL INFORMATION : **Ethylenediamine Tetraacetate**
ECOTOXICITY : No data available.
PERSISTENCE AND DEGRADABILITY : No data available.
BIOACCUMULATIVE POTENTIAL : No data available.

ECOLOGICAL INFORMATION : **Coconut Diethanolamide**
ACUTE TOXICITY : LC50 Algae: < 10 mg/l 72 hours, LC50 Daphnia: < 10 mg/l 48 hours, LC50 Fish: < 10 mg/l 96 hours
PERSISTENCE AND DEGRADABILITY : Readily biodegradable
BIOACCUMULATIVE POTENTIAL : No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL : This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME : Not Hazardous
HAZARD CLASS AND LABEL : Not Applicable.
UN NUMBER : Not Applicable.
PACKAGING GROUP : Not Applicable.
EPA REPORTABLE QUANTITY (RQ) : Not Applicable.
MARINE POLLUTANT : Not listed.

SAFETY DATA SHEET
BIOSOL 40

EMERGENCY RESPONSE GUIDE : Not Applicable.

SECTION 15 – REGULATORY INFORMATION

U.N. GHS CLASSIFICATION & LABELING INFORMATION: See Section 2 for GHS Hazard Information.

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN : Not listed.
TSCA STATUS : The ingredients of this product are listed in TSCA inventory (40CFR 710.)
SARA SECTION 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA SECTION 312 : Chronic health hazard (Glycol Ether DPM).
SARA SECTION 313 : 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.
NFPA HEALTH : 2
NFPA FLAMMABILITY : 0
NFPA REACTIVITY : 0

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION : Non Hazardous
DSD/DPD RISK (R) PHRASES : R22: Harmful if swallowed.
R36/38: Irritating to eyes and skin.
DSD/DPD SAFETY (S) PHRASES : S1/2: Keep locked up and out of reach of children.
S24/25: Avoid contact with eyes and skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.
S61: Avoid release to the environment.
S62: If swallowed, do not induce vomiting.
S64: If swallowed, rinse mouth with water if victim is conscious.
DSD/DPD HAZARD SYMBOL : Xi: Irritant



CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY : D2B: Materials that cause other toxic effects (TOXIC).
Note: D-limonene and Diethylene Glycol Methyl Ether are WHMIS B3 (combustible) chemicals, but not at the levels present in this product.
DOMESTIC SUBSTANCES LIST (DSL) : Listed
INGREDIENT DISCLOSURE LIST : Listed



SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Wesmar Co. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and

SAFETY DATA SHEET

BIOSOL 40

recommendations in the specific context of their intended use.

CERCLA	: Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS	: European Inventory of Existing Commercial Chemical Substances
IMDG	: International Maritime Code for Dangerous Goods
IARC	: International Agency for Research on Cancer
IATA	: International Air Transportation Association
ACGIH	: American Conference of Governmental Industrial Hygienists
NFPA	: National Fire Protection Association (USA)
NTP	: National Toxicology Program
SARA	: Superfund Amendments and Reauthorization Act
TSCA	: Toxic Substances Control Act
HMIS	: Hazardous Materials Identification System (USA)
WHMIS	: Workplace Hazardous Materials Information System
LC50	: Lethal concentration, 50 percent
LD50	: Lethal dose, 50 percent
STOT	: Systemic Target Organ Toxicity
DATE PREPARED	: MAR 1, 2006
DATE REVISED	: MAR 1, 2015