

**SAFETY DATA SHEET
BUS & KAR**

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : BUS & KAR
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Moderately 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+351+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

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

SAFETY DATA SHEET BUS & KAR

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
Sodium Hydroxide *	1-5	1310-73-2	215-185-5	Metal Corr Cat 1, Skin Corr. Cat. 1A Eye Dam. Cat. 1, Aquatic Acute Cat 3
Monoethanolamine	1-5	141-43-5	200-659-6	Skin Corr Cat 1B
Trisodium Phosphate Crystals	1-5	10101-89-0	Not Found	Skin Irrit Cat 2
Sodium Dodecylbenzene Sulfonic Acid	10-20	27176-87-0	204-489-3	Not found
Nonylphenol, Ethoxylate N-9	1-5	127087-87-0	500-315-8	Eye Dam Cat 1, Aquatic Hazard (Long Term) Cat 3
Coconut Diethanolamide	1-5	68603-42-9	271-657-0	Skin Irrit Cat 2, Eye Irrit Cat 2B
Propylene Glycol	1-5	57-55-6	200-338-0	Skin Irrit Cat 3, Eye Irrit Cat 2B

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Tox = Toxic, STOT = Specific Target Organ Toxicity.
Note: The Sodium Hydroxide reacts with the Sodium Dodecylbenzene Sulfonic Acid to non-hazardous pH levels.

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.

SAFETY DATA SHEET BUS & KAR

- ENVIRONMENTAL PROCEDURES** : Keep spilled material away from sewage/drainage systems and waterways.
- 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 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
Sodium Hydroxide	2 mg/m ³ (Ceiling)	2mg/m ³	2mg/m ³ (Ceiling)
Monoethanolamine	2.5mg/m ³	2.5 mg/m ³	7.6 mg/m ³
Trisodium Phosphate Crystals	Not Established	Not Established	Not Established
Sodium Dodecylbenzene Sulfonic Acid	1 mg/m ³	1 mg/m ³	Not Established
Nonylphenol, Ethoxylate N-9	Not Established	Not Established	Not Established
Coconut Diethanolamide	Not Established	Not Established	Not Established
Propylene Glycol	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 fluorescent pink liquid with mild odor
- ODOR** : Mild odor
- ODOR THRESHOLD** : Not available

SAFETY DATA SHEET BUS & KAR

PH	: 10.0 - 10.6 AS IS
MELTING POINT/FREEZING POINT	: Not available
BOILING POINT	: Approx. 212° F.
FLASH POINT	: Non flammable, non combustible
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 DESNITY	: 1.03
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 CONDITONS 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	: Sodium Hydroxide
ACUTE TOXICITY	: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe; Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe; Draize test, rabbit, skin: 500 mg/24H Severe
EYE CONTACT	: Causes severe eye damage.
SKIN CONTACT	: Causes skin burns. Onset of symptoms may be delayed following exposure.
INHALATION	: Corrosive to respiratory tract.
INGESTION	: Corrosive to respiratory tract.
CARCINOGENICITY	: The components of this product are not classified as carcinogenic by OSHA, NTP IARC or CA Prop 65
TOXICOLOGICAL INFORMATION	: Monoethanolamine
ACUTE TOXICITY	: LD50 rat (oral): 1,515 mg/kg, LC50 rat (by inhalation): > 1.3 mg/l 6 h (IRT) The European Union (EU) has classified this substance as 'harmful'. The vapor was tested. LD50 rabbit (dermal): 2,504 mg/kg (OECD Guideline 402)
TOXICOLOGICAL INFORMATION	: Trisodium Phosphate Crystals
ACUTE TOXICITY	: Oral - rat LD50: 6,500 mg/kg; practically nontoxic Dermal - rabbit LD50: > 7,940 mg/kg; practically nontoxic Eye Irritation - rabbit (4-hr exp.): corrosive Skin Irritation - rabbit: 3.3/8.0; moderately irritating

SAFETY DATA SHEET

BUS & KAR

TOXICOLOGICAL INFORMATION : **Sodium Dodecylbenzene Sulfonic Acid (LAS 99)**
ROUTES OF ENTRY : Dermal contact. Eye contact. Inhalation. Ingestion.
ACUTE TOXICITY : LD50 Oral rat: 650 mg/kg.
CHRONIC EFFECTS ON HUMANS : Not available.
OTHER TOXIC EFFECTS ON HUMANS : Very hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant). Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (corrosive).
CARCINOGENICITY : Not available.

TOXICOLOGICAL INFORMATION : **Nonylphenol, Ethoxylate**
ACUTE TOXICITY : LD50 Oral (rat): 16,000 mg/kg,
INHALATION LC50 : No data available
DERMAL LD50 : LD50 Dermal (rabbit): 4,490 mg/kg.
PRIMARY SKIN IRRITATION : Slight irritation.
PRIMARY EYE IRRITATION : No data available.
CARCINOGENICITY : This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

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

TOXICOLOGICAL INFORMATION : **Propylene Glycol**
ACUTE TOXICITY : LD50 Oral (rat): 20,000 mg/kg, LD50 Dermal (rabbit): 20,800 mg/kg, LC50 Inhalation: Not applicable.
CARCINOGENICITY : Not listed, IARC, NTP, ACGIH and OSHA.
MUTAGENICITY : No data available.
SENSITISATION : No evidence of sensitization.

SECTION 12 – ECOLOGICAL INFORMATION
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ECOLOGICAL INFORMATION : **Sodium Hydroxide**
ECOTOXICITY : Immobilization EC50/48h/Daphnia-40.38 mg/l. LC50 /96h/Mosquito fish-125 mg/l.
ENVIRONMENTAL PHYSICAL : No information found.
OTHER : No relevant information available.
PERSISTENCE AND DEGRADABILITY : No relevant information available.
BIOACCUMULATIVE POTENTIAL : No relevant information available.
NOTES : Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must no reach bodies of water or drainage ditch undiluted or un-neutralized. Rinse off larger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.

ECOLOGICAL INFORMATION : **Monoethanolamine**
ECOTOXICITY (TOXICITY TO FISH) : LC50 (96 h) 349 mg/l, Cyprinus carpio.
 LC50 (96 h) 170 mg/l, Carassius auratus.
ECOTOXICITY (AQUATIC) : EC50 (48 h) 65 mg/l, Daphnia magna.

SAFETY DATA SHEET

BUS & KAR

INVERTABRATES)	
ECOTOXICITY (AQUATIC PLANTS)	: EC50 (72 h) 2.5 mg/l (growth rate), <i>Selenastrum capricornutum</i> . EC50 (72 h) 22 mg/l (growth rate), <i>Scenedesmus subspicatus</i> .
ECOTOXICITY: (EFFECT ON ACTIVATED SLUDGE	: EC20 (0.5 h) > 1,000 mg/l, activated sludge, domestic.
ECOLOGICAL INFORMATION ECOTOXICITY	: Trisodium Phosphate Crystals : Invertebrate: 48-hr EC50 <i>Daphnia magna</i> : >1000 mg/L; Practically Nontoxic. Warm-water Fish: 96-hr LC50 Bluegill sunfish: 440 mg/L; Practically Nontoxic. Coldwater Fish: 96-hr LC50 Rainbow trout: 260 mg/L; Practically Nontoxic. No definitive algal toxicity data was available for this material.
ENVIRONMENTAL FATE	: Phosphates: Inorganic phosphates, including this product, at high concentrations in the environment have the potential to cause eutrophication in aquatic systems. This condition is characterized by excessive algal growth, and subsequent decreases in oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.
ECOLOGICAL INFORMATION ECOTOXICITY	: Sodium Dodecylbenzene Sulfonic Acid (LAS 99)
BOD5 AND COD	: Not available.
PRODUCTS OF BIODEGRADATION	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
TOXICITY OF THE PRODUCTS OF BIODEGRADATION	: The products of degradation are more toxic.
SPECIAL REMARKS: PRODUCTS OF BIODEGRADATION	: Not available.
ECOLOGICAL INFORMATION ECOTOXICITY	: Nonylphenol ethoxylate
PERSISTENCE AND DEGRADABILITY	: Not available. : No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION ACUTE TOXICITY	: Coconut Diethanolamide : LC50 Algae: < 10 mg/l 72 hours, LC50 <i>Daphnia</i> : < 10 mg/l 48 hours, LC50 Fish: < 10 mg/l 96 hours
PERSISTENCE AND DEGRADABILITY	: Readily biodegradable
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION ECOTOXICITY	: Propylene Glycol : 96 HR LC50 <i>Oncorhynchus Mykiss</i> 51600 mg/L [static] 96 HR LC50 <i>Pimephales Promelas</i> 51400 mg/L [static] 96 HR LC50 <i>Pimephales Promelas</i> 710 mg/L 24 HR EC50 <i>Daphnia Magna</i> > 10000 mg/L 48 HR EC50 <i>Daphnia Magna</i> > 1000 mg/L [static] 96 HR EC50 <i>Pseudokirchneriella Subcapitata</i> 19000 mg/L
PERSISTENCE AND DEGRADABILITY	: Readily biodegradable.
MOBILITY	: This material is expected to have very high mobility in soil. It does not absorb to most soil types.

SECTION 13 – DISPOSAL CONSIDERATIONS

SAFETY DATA SHEET BUS & KAR

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.
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:

SAFETY DATA SHEET

BUS & KAR

WHMIS CATEGORY : D2B: Materials that cause other toxic effects (TOXIC).



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 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
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