SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME

FORMULA 200

SYNONYMS

Product is a mixture: No synonyms are available

PRODUCT USE

Alkaline Material

SUPPLIER

Wesmar Co. Inc.

SUPPLIER'S ADDRESS

5720 204TH ST SW, Lynnwood, WA 98036

(206) 783-5344

EMERGENCY RESPONSE PHONE

PERS: 1-800-633-8253



SECTION 2 - HAZARD IDENTIFICATION

GHS – US CLASSIFICATION

: H290

Metal corrosion Category 1

H314 H318 Skin Corrosion Category 1B Serious Eye Damage Category 1B

H412

Aquatic Acute Category 3

HAZARD PICTOGRAMS



SIGNAL WORD

DANGER

GHS LABEL ELEMENTS

The product is classified and labeled according to the Globally Harmonized System

GHS PHYSICAL HAZARDS

H290 : May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

H412

Harmful to aquatic life with long lasting effects.

GHS PRECAUTIONARY HAZARDS

: 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.

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

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+P330

IF SWALLOWED. Rinse mouth. Do NOT induce vomiting.

+P331

P303+P361

IF ON SKIN (or hair): Remove/Take off immediately all contaminated

+P353

clothing. Rinse skin with water/shower.

P305+P351

IF IN EYES: Rinse cautiously with water for several minutes. Remove

+P338

contact lenses, if present and easy to do. Continue rinsing.

P305+P340

IF INHALED: Remove victim to fresh air and keep at rest in a position.

P310

Immediately call a POISON CENTER or doctor/physician.

P330

Rinse mouth if ingested.

P405

Store locked up.

P501

Dispose of contents/container in accordance with

local/regional/national/international regulations.

OSHA HAZARDS

Target Organ Effect (Glycol Ether DPM)

TARGET ORGANS

Kidney, Liver, Nerves (Glycol Ether DPM).

CLASSIFICATION SYSTEM:

: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.

NFPA ratings (scale 0-4):

: Health = 3, Fire = 0, Reactivity = 1

HMIS ratings (scale 0-5):

: Health = 3, Fire = 0, Reactivity = 1

SECTION 3 - COMPOSITON/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION

: Mixtures

DESCRIPTION

: Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS#	EC#	GHS CLASS			
Potassium Hydroxide	1-5	1310-58-3	215-181-3	Metal Corr. Cat 1, Skin Corr Cat 1B Eye Dam Cat 1, Acute Tox (Oral) Cat 4			
Dipropylene glycol methyl ether	1-5	34590-94-8	252-104-2	Eye Irrit: Cat 2B			
Ethylenediaminet Tetraacetate	0.1-2	64-02-8	200-573-9	Eye Dam Cat 1, Acute Tox (Oral) Cat4			
Tetrasodium Salt (edta)				Acute Aquatic Cat 2, Acute Tox (Inhal) Cat4			
Nonylphenol Ethoxylate Phosphate	0.1-2	51811-79-1	200-432-1	Skin Irrit Cat 2, Eye Irrit Cat 2A			
Cocoamidopropyle Betaine	0.1-2	61789-40-0	263-058-8	Eye Irrit Cat 2B			
Sodium Xylene Sulfonate	1-5	1300-72-7	215-090-9	Skin Irrit Cat 2, Eye Irrit Cat 2A			
Alcohol Ethoxylate N-12	0.1-2	127087-87-0	500-315-8	Eye Dam Cat 1			
Coconut Diethanolamide	1-5	68603-42-9	271-657-0	Skin Irrit Cat 2, Eye Irrit Cat 2B			
Corr. = Corrosion, Dam. = Damage, Tox = Toxic, Irrit = Irritation, Cat = Category							

SECTION 4 - FIRST AID MEASURES

FY	E .	\sim	AIT	· A	\sim

: 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. Immediate call a POISON CENTER or doctor/physician.

SKIN CONTACT

: Remove contaminated clothing and shoes. Wash affected skin area with water for at least 15 minutes. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention. Wash contaminated clothing before

SWALLOWING (INGESTION)

: If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Immediate call a POISON CENTER or doctor/physician.

INHALATION

When symptoms occur, go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor/physician.

GENERAL MEASURES

Never give anything by mouth to an unconscious person. 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 SPECIAL PROTECTIVE

: Dry chemical, foam, water or carbon dioxide

EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTER 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

: No further relevant information is available.

HAZARDS

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS,
PROTECTIVE EQUIPMENT AND
EMERGENCY PROCEDURES
ENVIRONMENTAL PRECAUTIONS

: Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

Keep spilled material away from sewage/drainage systems and waterways. This

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See section15 for more information.

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

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-Ceiling	ACGIH - STEL
Potassium Hydroxide	2 mg/m³ (Ceiling)	2mg/m ³	2mg/m ³ (Ceiling)
Dipropylene glycol methyl ether	100 ppm, 600mg/m ³	100 ppm	150 ppm
Ethylenediamine Tetraacetate Na Salt	Not Established	Not Established	Not Established
Nonylphenol Ethoxylate Phosphate PBC	Not Established	Not Established	Not Established
Cocoamidopropyle Betaine	Not Established	Not Established	Not Established
Sodium Xylene Sulfonate	Not Established	Not Established	Not Established
Alcohol Ethoxylate N-12	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 fluorescent green liquid with mild odor

ODOR

Mild odor

ODOR THRESHOLD

Not available

PH

> 13.5

MELTING POINT/FREEZING

Not available

POINT

BOILING POINT

Not available

FLASHPOINT

Non flammable, non combustible

EVAPORATION RATE FLAMMABILITY

Not available Not applicable :

LOWER FLAMMABILITY LIMIT UPPER FLAMMABILITY LIMIT Not applicable Not applicable

VAPOR PRESSURE

Not available Not available :

VAPOR DENSITY (AIR=1) **RELATIVE DENSITY**

1.05

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

No decomposition if used according to specifications.

AVOID

INCOMPATIBLE MATERIALS

Keep away from strong acids.

HAZARDOUS DECOMPOSITION

No dangerous decomposition products known.

PRODUCTS

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

: Potassium Hydroxide

ACUTE TOXICITY

LD50 Oral (rat): 214 mg/kg, LD50 Dermal: Not Determined. LC50 Inhalation: Not determined.

When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact.

CARCINOGENICITY

This product is not classified as a carcinogen by NTP, IARC or OSHA.

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 DERMAL LD50

: No data available No data available

OTHER INFORMATION ON ACUTE : No data available

TOXICITY

TOXICOLOGICAL INFORMATION

Nonylphenol Ethoxylate Phosphate : LD50 Oral (rat): 5000-15,000 mg/kg,

ACUTE TOXICITY INHALATION LC50

: No data available

DERMAL LD50

: No data available

CARCINOGENICITY

This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

MUTAGENICITY

Not mutagenic in AMES test.

TOXICOLOGICAL INFORMATION

: Cocoamidopropyl Betaine

ACUTE TOXICITY

: LD50 Oral (rat): 5000-15,000 mg/kg.

INHALATION LC50

No data available

DERMAL LD50 CARCINOGENICITY

No data available : This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

MUTAGENICITY

Not mutagenic in AMES test.

TOXICOLOGICAL INFORMATION

Sodium Xylene Sulfonate

ROUTES OF ENTRY

Absorbed through skin and/or eye contact.

ACUTE TOXICITY

: LD50 Oral (rat): 2500 mg/kg,

CHRONIC EFFECTS ON HUMANS

SPECIAL REMARKS ON TOXICITY

: Contains material which may cause damage to the following organs: liver

TO ANIMALS

: TDL (rat): Route: skin; Dose: 3380 mg/kg/17D intermittent; Toxic effects: changes in liver weight TDL (rat): Route: skin; Dose: 35 gm/kg/14W intermittent; Toxic effects:

dermatitis, other (skin and appendages). (Sodium Xylene Sulfonate).

TOXICOLOGICAL INFORMATION

Ethoxylated Alcohol N-12

ACUTE TOXICITY

LD50 Oral (rat: 3,989-5,000 mg/kg,

INHALATION LC50

No data available.

DERMAL LD50

LD50 Dermal (rabbit): 3,228-5,000 mg/kg.

SENSITIZATION SKIN

: For this family of materials: Did not cause allergic skin reactions when tested in

REPEATED DOSE TOXICITY

For this family of materials: In animals, effects have been reported on the following organs: Heart.

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

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION AQUATIC TOXICITY

: Potassium Hydroxide

This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material has exhibited moderate toxicity to aquatic organisms.

FRESHWATER FISH TOXICITY

LC50 (Mosquito fish): 80 mg/L/96 hr (static bioassay in fresh water at 18-19 C) LC50 (Fathead Minnow): 179 mg/L/96 hr (static at 22.3-24.7 C)

: This material will disassociate into ionic form in the aquatic environment. Natural

INVERTEBRATE TOXICITY

: EC50 (Daphnia magna): 60 mg/L/48 hr (static bioassay at 20.3-20.7 C)

FATE & TRANSPORT BIODEGRADATION

carbon dioxide will slowly neutralize this material.

BIOCONCENTRATION

This material does not bio-concentrate.

ADDITIONAL ECOLOGICAL

: This material has exhibited slight toxicity to terrestrial organisms.

INFORMATION

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

: No data available.

DEGRADABILITY

BIOACCUMULATIVE POTENTIAL

: No data available.

ECOLOGICAL INFORMATION

Ethylenediamine Tetraacetate

: Nonylphenol Ethoxylate Phosphate

ECOTOXICITY PERSISTENCE AND : No data available. No data available.

DEGRADABILITY

BIOACCUMULATIVE POTENTIAL

: No data available.

ECOLOGICAL INFORMATION

ECOTOXICITY

Not available

PERSISTENCE AND

No data available

DEGRADABILITY

BIOACCUMULATIVE POTENTIAL

: No data available

ECOLOGICAL INFORMATION

: Cocoamidopropyl Betaine

ECOTOXICITY PERSISTENCE AND

: Not available

: No data available

DEGRADABILITY

BIOACCUMULATIVE POTENTIAL

: No data available

ECOLOGICAL INFORMATION

: Sodium Xylene Sulfonate : Not available

ECOTOXICITY BOD5 AND COD

: Not available

PRODUCTS OF

Possibly hazardous short term degradation products are not likely. However, long

term degradation products may arise.

TOXICITY OF THE PRODUCTS OF

BIODEGRADATION

BIODEGRADATION

: The product itself and its products of degradation are not toxic.

ECOLOGICAL INFORMATION

ECOTOXICITY

: Ethoxylated Alcohol NP-12

: For this family of materials: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

FISH ACUTE AND PROLNGED

TOXICITY

For this family of materials: LC50, fathead minnow (Pimephales promelas), 96 h: 1.6

- 24 mg/l

AQUATIC INVERTEBRATE ACUTE

TOXICITY

: For this family of materials: LC50, water flea Daphnia magna, 48 h: 23.1 - 71.8 mg/L For this family of materials: EC50, water flea Daphnia magna, 48 h, immobilization:

PERSISTENCE AND

DEGRADABILITY

23.1 mg/L. No data available For this family of materials: Based on stringent OECD test

guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under

environmental conditions.

ECOLOGICAL INFORMATION

ACUTE TOXICITY

: Coconut Diethanolamide

LC50 Algae: < 10 mg/l 72 hours, LC50 Daphnia: < 10 mg/l 48 hours, LC50 Fish: < 10 mg/l 96 hours

PAGE 6 of 8

PERSISTENCE AND

: Readily biodegradable

DEGRADABILITY

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

: UN-1814, POTASSIUM HYDROXIDE, SOLUTION 8, PG-

1000 LBS. (454 KG) as Potassium Hydroxide 100%.

HAZARD CLASS AND LABEL

UN NUMBER

8 (Corrosive) UN 1814

PACKAGING GROUP

: PG-II

EPA REPORTABLE QUANTITY

(RQ)

MARINE POLLUTANT

EMERGENCY RESPONSE

: Not listed. ERG-154

GUIDE

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN

TSC STATUS

The ingredients of this product are listed on TSCA (Toxic Substances Control Act)

inventory (40CFR 710.)

SARA SECTION 302

EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):

No chemicals in this material are subject to the reporting requirements of SARA Title

III, Section 302.

SARA SECTION 311 HAZARD

CATEGORIES (40 CFR 370):

: Immediate (acute) health hazard. (Dipropylene glycol methyl ether).

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

3 0

NFPA FLAMMABILITY NFPA REACTIVITY

1

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION

: C: Corrosive, Xn: Harmful. : R34: Causes severe burns.

DSD/DPD RISK (R) PHRASES

R22: Harmful is swallowed.

DSD/DPD SAFETY (S)

: S1/2: Keep locked up and out of reach of children.

PHRASES

S18: Handle and open containers with care.

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.

S64: If swallowed, rinse mouth with water if victim is conscious.

DSD/DPD HAZARD SYMBOL

: C: Corrosive, Xn: Harmful

CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY

: Class E: Corrosive, Class D2B: Materials that cause other toxic

effects (TOXIC).

DOMESTIC SUBSTANCES LIST

Listed

(DSL)

INGREDIENT DISCLOSURE LIST : Listed, This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by

the CPR.





SECTION 16 - OTHER INFORMATION

DISCLAIMER

The information contained herein has been compiled from sources believed to be realiable 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

Hazardous Materials Identification System (USA) **HMIS 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** : JUN 12, 2014