#### **SECTION 1- PRODUCT IDENTIFICATION**

**PRODUCT NAME**BREW KLEEN LF

**SYNONYMS** Product is a mixture: No synonyms are available

PRODUCT USE Highly Alkaline Material SUPPLIER WESMAR CO. INC.

**SUPPLIER'S ADDRESS** 5720 204<sup>TH</sup> 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

H302 Harmful if swallowed
H314 Skin Corrosion Category 1A
H318 Serious Eye Damage Category 1

HAZARD PICTOGRAMS :





SIGNAL WORD : DANGER

GHS LABEL ELEMENTS : The product is classified and labeled according to the Globally Harmonized System

(GHS).

**GHS PHYSICAL HAZARDS** : H290 May be corrosive to metals. **GHS HEALTH HAZARDS** : H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage.

: H318 Causes serious eye damage.

: H370 Causes damage to respiratory system by inhalation.

**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+P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

: 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.

**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
Sodium Hydroxide	25-45	1310-73-2	215-185-5	Metal Corr Cat 1, Skin Corr. Cat. 1A Eye Dam. Cat. 1, Aquatic Acute Cat 3
Aminotrimethylene Phosphonic Acid	< 1	6419-19-8	229-146-5	Metal Corr Cat 1, Eye Irrit Cat 2A
Sodium Gluconate	1-5	527-07-1	208-407-7	Not Found
Sodium Glucoheptonate	1-5	31138-65-5	250-480-2	Not Found
Alkylether Hydroxypropyl Sultaine	1-5	108797-84-8	Not	Skin Irrit Cat 2, Eye Irrit Cat 2A
		108797-85-9	Available	

Corr. = Corrosion, Dam. = Damage, Cat = Category, Tox = Toxicity, Irrit = Irritant.

#### **SECTION 4 – FIRST AID MEASURES**

**EYE CONTACT** : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to

ensure adequate flushing. Get immediate medical attention.

**SKIN CONTACT**: Remove contaminated clothing and shoes. Wash affected skin area with soap and

water. Delayed skin damage is possible if product is not completely washed off. Get

immediate medical attention.

**SWALLOWING (INGESTION)**: If ingested, dilute swallowed material by drinking water. DO NOT INDUCE

VOMITING. Never give anything by mouth to an unconscious person. Get

immediate medical attention.

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

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** : Water spray, fog, carbon dioxide, foam, dry chemical

SPECIAL HAZARDS (FIRE) : Not flammable. Contains sodium hypochlorite which may act as an oxidizer in some

cases intensifying a fire.

**EXPLOSION HAZARDS**: Product is not explosive.

**REACTIVITY (FIRE)** : Thermal decomposition generates: Corrosive vapors. If the product is involved in a

fire, it can release explosive hydrogen gas. When heated to decomposition, emits

toxic fumes. May be corrosive to metals.

SPECIAL INSTRUCTIONS TO FIRE FIGHTERS

**PRECAUTIONARY MEASURES** : Exercise caution when fighting any chemical fire.

**FIREFIGHTING INSTRUCTIONS**: Use water spray or fog for cooling exposed containers.

PROTECTION DURING : Do not enter fire area without proper protective equipment, including respiratory

**FIREFIGHTING** protection.

**HAZARDOUS COMBUSTION**: Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides.

PRODUCTS Nitrogen oxides. Carbon oxides (CO, CO<sub>2</sub>). Explosive Hydrogen gas.

**OTHER INFORMATION (FIRE)**: Do not allow run-off from fire fighting to enter drains or water courses.

#### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND **EMERGENCY PROCEDURES** 

- Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.
- **ENVIRONMENTAL PRECAUTIONS**
- Keep spilled material away from sewage/drainage systems and waterways. This 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 section 15 for more information.

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** 

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

**CONDITIONS FOR SAFE STORAGE** 

Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat and incompatible materials (Strong acid, Strong oxidizers).









#### 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	<b>ACGIH TLV-Ceiling</b>	ACGIH – STEL
Sodium Hydroxide	2 mg/m³ (Ceiling)	2mg/m <sup>3</sup>	2mg/m³ (Ceiling)
Aminotrimethylene Phosphonic Acid	Not Established	Not Established	Not Established
Sodium Gluconate	Not Established	Not Established	Not Established
Sodium Heptonate	Not Established	Not Established	Not Established
Alkylether Hydroxypropyl Sultaine	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 mild odor

**ODOR** Mild odor **ODOR THRESHOLD** Not available > 13.5 Not available

MELTING POINT/FREEZING

**POINT** 

Not available

**BOILING POINT FLASHPOINT** Not applicable **EVAPORATION RATE** Not available

**FLAMMABILITY** Non flammable, Non combustible

LOWER FLAMMABILITY LIMIT : Not applicable Not applicable UPPER FLAMMABILITY LIMIT **VAPOR PRESSURE** Not available **VAPOR DENSITY (AIR=1)** Not available

1.48 RELATIVE DENSITY

**SOLUBILITY IN WATER** Soluble in water Not available PARTITION COEFFICIENT n-

**OCTANOL/WATER** 

**AUTOIGNITION TEMPERATURE** Not available **DECOMPOSITION TEMPERATURE** Not available

#### **SECTION 10 – STABILITY AND REACTIVITY**

REACTIVITY : Thermal decomposition generates: Corrosive vapors. If the product is involved in a

fire, it can release explosion hydrogen gas. When heated to decomposition, emits

toxic fumes. May be corrosive to metals.

**STABILITY** Stable under recommended storage conditions.

HAZARDOUS CONDITIONS TO

AVOID

Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials.

Incompatible materials.

**INCOMPATIBLE MATERIALS** 

HAZARDOUS DECOMPOSITION

**PRODUCTS** 

Strong acids. Strong oxidizers. Soft metals. May be corrosive to metal.

Carbon oxides (CO, CO<sub>2</sub>). Thermal decomposition generates: Corrosive vapors. Toxic

gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides.

Potassium oxides.

#### **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.

: Causes skin burns. Onset of symptoms may be delayed following exposure. **SKIN CONTACT** 

**INHALATION** Corrosive to respiratory tract. **INGESTION** Corrosive to respiratory tract.

The components of this product are not classified as carcinogenic by OSHA, NTP CARCINOGENICITY

IARC or CA Prop 65

**TOXICOLOGICAL INFORMATION** : Aminotrimethylene Phosphonic acid (ATMP)

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ACUTE TOXICITY : LD50 Oral (Rat): 2910mg/kg, LD50 Dermal (Rabbit): > 6310mg/kg.

CHRONIC EFFECTS ON HUMANS

: Rat 24months: > 500 mg/kg. Conclusion: Practically non toxic.

OTHER TOXIC EFFECTS ON

**HUMANCS** 

: Skin and Eyes (Rabbit): Moderate Irritant.

**TOXICOLOGICAL INFORMATION** 

: Sodium Gluconate

**ACUTE TOXICITY** 

: LD50: Not available, LC50: Not available.

**CHRONIC EFFECTS ON HUMANS** 

: Not available.

OTHER TOXIC EFFECTS ON

HUMANS

Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of

inhalation.

TOXICOLOGICAL INFORMATION

Sodium GlucoheptonateLD50: Oral (Rat): 980mg/kg.

ACUTE TOXICITY CARCINOGENICITY

: Not listed with ACGIH, IARC, NIOSH, NTP, OSHA.

OTHER TOXIC EFFECTS ON

. Not listed with Acon, IARC, NIOSH, NTT, OSHA.

**HUMANS** 

: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**TOXICOLOGICAL INFORMATION** 

: Alkylether Hydroxypropyl Sultaine (ASC)

**ACUTE TOXICITY** 

: LD50 Oral (Rat): 13,800mg/kg, Skin (rabbit): Slightly irritating, Eyes (rabbit): Slightly

irritating. Acute Inhalation Toxicity: No data found

**CARCINOGENICITY** 

: This product is not considered to be probable or suspected human carcinogens by

IARC, ACGIH, NTP or OSHA.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION** 

Sodium Hydroxide

**ECOTOXICITY** 

Immobilization EC50/48h/Daphnia-40.38 mg/l. LC50 /96h/Mosquito fish-125 mg/l.

**ENVIRONMENTAL** 

No information found.No information found.

PHYSICAL

: No relevant information available.

OTHER PERSISTENCE AND

No relevant information available.

**DEGRADABILITY** 

BIOACCUMULATIVE POTENTIAL

NOTES

: No relevant information available.

: 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** 

Aminotrimethylene Phosphonic Acid (ATMP)

**ECOTOXICITY** 

: Acute LC50 fish (fresh water)14 days: 160mg/L, LC50 Daphnia-Daphnia Magna (fresh water) 48hr: 297 mg/L, LC50 Daphnia (marine water) 48hr: 94mg/L

CHRONIC TOXICITY

: Fish (fresh water) 60 days @ 23mg/L: No observable effect. Daphnia (fresh water)

28 days @ >25mg/L: No observable effect

BIODEGRADATION

Biodegradable.

**TOXICITY OF PRODUCTS OF** 

blouegrauable.

BIODEGRADATION

: The product and products of biodegradation are not toxic.

**ECOLOGICAL INFORMATION** 

**Sodium Gluconate** 

ECOTOXICITY
BOD5 AND COD

Not available Not available

PRODUCTS OF

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

**BIODEGRADATION** 

term degradation products may arise.

TOXICITY OF PRODUCTS OF

**BIODEGRADATION** 

The product and products of biodegradation are not toxic.

**ECOLOGICAL INFORMATION** 

**Sodium Glucoheptonate** 

**ECOTOXICITY BOD5 AND COD**  Not available Not available

**PRODUCTS OF** 

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

**BIODEGRADATION TOXICITY OF PRODUCTS OF**  term degradation products may arise.

**BIODEGRADATION** 

The product and products of biodegradation are not toxic.

**ECOLOGICAL INFORMATION** 

Alkylether Hydroxypropyl Sultaine

**ECOTOXICITY PERSISTENCE AND** 

Not available. No data available.

**DEGRADABILITY** 

No data available. **BIOACCUMULATIVE POTENTIAL** 

#### **SECTION 13 – DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL** RECOMMENDATIONS 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.

**ECOLOGY-WASTE MATERIALS** 

: This material is hazardous to the aquatic environment. Keep out of sewers and

waterways.

#### **SECTION 14 – TRANSPORTATION INFORMATION**

**DOT/IMDG/IATA PROPER** 

UN1824, SODIUM HYDROXIDE, SOLUTION 8 PGII

SHIPPING NAME

HAZARD CLASS AND LABEL 8 (Corrosive) **UN NUMBER** UN 1824 PACKAGING GROUP

PGII

**EPA REPORTABLE QUANTITY** 

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

(RQ)

MARINE POLLUTANT No **EMERGENCY** RESPONSE : 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** None

SARA SECTION 311/312 Immediate (acute) health hazard.

**HAZARD CLASS** 

**SARA SECTION 313** Not Listed

NFPA HEALTH 3 NFPA FLAMMABILITY 0

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NFPA REACTIVITY : 1

**EUROPEAN UNION REGULATORY INFORMATION:** 

**EC CLASSIFICATION** : C: Corrosive, Xn: Harmful. **DSD/DPD RISK (R) PHRASES** : R34: Causes severe burns.

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: Sodium Hydroxide

Listed



**DOMESTIC SUBSTANCES LIST** 

(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 GoodsIARC: International Agency for Research on CancerIATA: 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** : JAN 12, 2014 **DATE REVISED** : JAN 12, 2018