

**Four Star Chemical**  
**3137 E. 26th Street**  
**Vernon, CA 90058**  
**(323) 266-7111**

**SAFETY DATA SHEET**

SDS PREP DATE: 4/28/2015

SDS REVISION DATE: 4/28/2015

**24-Hour Emergency Telephone: (800) 255-3924****Product ID: ML-1170-55DR**

This Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right To Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in your SDS.

**Section 1: Product Identification**

Product ID: ML-1170-55DR

Product Name: Kleenol 15, 1x55 Ga

Intended Use: CLEANER DEGREASER CONCENTRATE

**Section 2: Hazard(s) Identification****Physical Hazard Classification:** Non Hazardous**NON HAZARDOUS****Physical Hazard Precautionary Statements:**

Causes skin and eye irritation.

IF ON SKIN: Gently wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**Health Hazard Classification(s):**

Acute Toxicity - Oral - Level 5 Warning

Acute Toxicity - Dermal - Level 4 Warning

Acute Toxicity - Inhalation - Level 5 Warning

Skin Corrosion/Irritation -Level 3 Warning

Eye Damage/Irritation -Level 2A Warning

Hazardous to the Aquatic Environment - Chronic

**Health Hazard Statements:**

Causes skin and eye irritation.

IF ON SKIN: Gently wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**Section 3: Product Composition**

	CAS#	% Range		PEL	TLV
ETHANOL, 2-BUTOXY	111-76-2	3%	7%	25 PPM	25 PPM
POTASSIUM HYDROXIDE, LIQUID	1310-58-3	0%	2%	NOT ESTABLISHED	NOT ESTABLISHED
SODIUM METASILICATE	6834-92-0	1%	5%	15 MG/M3	10 MG/M3
Dodecyl Denzene Sulfonic Acid	25155-30-0	0%	2%	N/D	N/D
INERT MATERIAL	7732-18-5	80%	95%	NOT ESTABLISHED	NOT ESTABLISHED

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Specific chemical identity and exact percentages are withheld as Trade Secret.

**Section 4: First-Aid Measures**

Wash hands and exposed areas thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

IF INHALED: 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 present and easy to do. Continue rinsing.

Call a POISON CENTER/doctor/physician if you feel unwell.

See Section 12 if specific treatment is applicable.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local regulations.

THRESHOLD LIMIT VALUE: See Section III

EFFECTS OF OVER EXPOSURE: Irritation to skin and eyes.

EMERGENCY FIRST AID PROCEDURES:

SKIN: Wash with soap and water.

EYE: Flush with water for at least 15 minutes.

INHALATION: Remove to fresh air. See a physician if irritation persist.

ORAL: Call a physician. Do not induce vomiting.

ADDITIONAL: Contact with eyes will be painful and irritating. Prolonged or repeated contact with skin may cause irritation. Mist caused by manufacturing operations may irritate the nasal passages.

**Section 5: Fire-Fighting Measures**

Wash hands and exposed areas thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

IF INHALED: 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 present and easy to do. Continue rinsing.

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Dispose of contents/container in accordance with local regulations.

**FIRE & EXPLOSION HAZARDS:** Keep containers cool. Use equipment or shielding required to protect personnel against bursting, rupturing, venting containers.

**FIRE FIGHTING EQUIPMENT:** At elevated temperatures (above 120 F) containers may vent, rupture, or burst.

**EXTINGUISHING MEDIA:** Foam Dry Chemical, Carbon Dioxide.

## Section 6: Accidental Release Measures

**SPILL PROCEDURES:** Pick up free material for recycle/disposal.

**WASTE DISPOSAL:** Disposal should be in compliance with Federal, State and local laws.

## Section 7: Handling and Storage

Wash hands and exposed areas thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

**IF ON SKIN:** Wash with plenty of water.

**IF INHALED:** 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 present and easy to do. Continue rinsing.

Call a POISON CENTER/doctor/physician if you feel unwell.

See Section 12 if specific treatment is applicable.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local regulations.

**VENTILATION PROCEDURE:** Use adequate ventilation

**GLOVES PROTECTION:** Neoprene or nitrile rubber gloves recommended.

**RESPIRATORY PROTECTION:** When applicable, wear a NIOSH approved respirator appropriate for the vapor or mist concentration at the point of use.

**EYE PROTECTION:** Safety glasses.

**OTHER PROTECTION:** None

## Section 8: Exposure Control / Personal Protection

Wash hands and exposed areas thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

**IF ON SKIN:** Wash with plenty of water.

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GLOVES PROTECTION: Neoprene or nitrile rubber gloves recommended.

RESPIRATORY PROTECTION: When applicable, wear a NIOSH approved respirator appropriate for the vapor or mist concentration at the point of use.

EYE PROTECTION: Safety glasses.

OTHER PROTECTION: None

## Section 9: Product Properties

Flash Point (CCP): > 200 F

Boiling Point for Product: > 212

Vapor Pressure for Product: N/E

Vapor Density for Product: > 1

Specific Gravity: 1.005

V.O.C.: 50 grams / Liter

Water Solubility: Complete

Appearance: Lt yellow clear thin liquid

PH: 12.8 +/- 0.5

## Section 10: Stability and Reactivity

INCOMPATIBILITY: Strong Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur dioxide, Hydrogen Sulfide, Nitrous Oxides and Ammoniacal Vapors.

POLYMERIZATION: Will not occur.

## Section 11: Toxicological Information

ETHANOL, 2-BUTOXY 111-76-2

**Acute oral toxicity** : LD 50 Guinea pig: 1,200 mg/kg

**Acute inhalation toxicity** : LC 50 Guinea pig: > 633 ppm, 1 h

**Acute dermal toxicity** : LD 50 Guinea pig: > 2,000 mg/kg

POTASSIUM HYDROXIDE, LIQUID 1310-58-3

**Acute oral toxicity**: LD 50 Rat: 214 mg/kg

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

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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.

SODIUM METASILICATE 6834-92-0

The hazard of sodium metasilicates, by all routes, comes from its corrosivity caused by the high alkalinity.

**Acute oral toxicity:** LD50 Rat : 600 - 1350 mg/kg  
**Inhalation:** Irritating to respiratory system  
**Eye:** Corrosive. May cause serious damage to eye, unless treated immediately  
**Skin:** Corrosive

Dodecyl Denzene Sulfonic Acid (DDBSA) 25155-30-0

**Acute oral toxicity:** LD50 Mouse: 1000 mg/Kg

## Section 12: Ecological Information

ETHANOL, 2-BUTOXY 111-76-2

Aquatic Toxicity LC50 Fish: 1490 mg/L

Aquatic Toxicity EC50 Crustacea: 550-1000 mg/L

POTASSIUM HYDROXIDE, LIQUID 1310-58-3

**ECOTOXICITY DATA:****Aquatic Toxicity:**

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)

**Invertebrate Toxicity:**

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

**Algae Toxicity:**

ErC50 (Selenastrum capricornutum): 61 mg/L/96 hr (static bioassay at 23-23.9 C)

**FATE AND TRANSPORT:**

**BIODEGRADATION:** This material will disassociate into ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize this material.

**BIOCONCENTRATION:** This material will not bioconcentrate.

**ADDITIONAL ECOLOGICAL INFORMATION:** This material has exhibited slight toxicity to terrestrial organisms.

**ECOLOGICAL HAZARDS:** This material has exhibited moderate toxicity to aquatic organisms.

SODIUM METASILICATE 6834-92-0

**General consideration:** soluble silicates upon dilution rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and others to end up as insoluble compounds similar to constituents of natural soils. However, the pH of most undiluted silicate solutions is above acceptable limits for direct discharge into waterbodies.

**Mobility:** not mobile

**Biodegradability:** not applicable on inorganic substances

**Accumulation:** no

**ECOTOXICITY DATA:**

LC50 Fish : 3185mg product/litre (by analogy with sodiumsilicate with MR 3.36, 35%)

EC50 Bacteria : &gt; 1000mg product/litre (by analogy with sodiumsilicate with MR 3.36, 35%)

EC50 Daphnia: 4857mg product/litre (by analogy with sodiumsilicate with MR 3.2, 35%)

If applicable, IARL, NPT and OSHA carcinogens and chemicals subject to the reporting requirements of SARA Title III, Section 313 are identified in Section III with an "\*". Additional ecological information is Not Determined.

## Section 13: Disposal Information

Wash hands and exposed areas thoroughly after handling.

Avoid release to the environment.

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See Section 12 if specific treatment is applicable.

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If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local regulations.

WASTE DISPOSAL METHOD: Consult local authorities for proper waste disposal procedures. Empty de-pressurized containers can not be reused. Cans which are pressurized or contain liquid must be disposed of in a permitted waste management facility. Consult Federal, State, and local disposal authorities for approved procedures.

**Section 14: Transportation Information**

DOT Proper Shipping Name: (NOT REGULATED)

**Section 15: Regulatory Information**

	CAS#	PEL	TLV
ETHANOL, 2-BUTOXY	111-76-2	25 PPM	25 PPM
POTASSIUM HYDROXIDE, LIQUID	1310-58-3	NOT ESTABLISHED	NOT ESTABLISHED
SODIUM METASILICATE	6834-92-0	15 MG/M3	10 MG/M3
Dodecyl Denzene Sulfonic Acid	25155-30-0	N/D	N/D
INERT MATERIAL	7732-18-5	NOT ESTABLISHED	NOT ESTABLISHED

If applicable, IARL, NPT and OSHA carcinogens and chemicals subject to the reporting requirements of SARA Title III, Section 313 are identified above with an "\*"

**Section 16: Other Information**

Consumer Product Safety Act Certificaton.

This product was evaluated by Four Star Chemical and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act, and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location identified on the SDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above mentioned regulation.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.