



COMPANY IDENTITY: CHEMCO INDUSTRIES, INC.  
PRODUCT IDENTITY: RED FORCE ALL PURPOSE CLEANER & DEGREASER  
SDS NUMBER: 0117 RED FORCE

DATE: 01/05/11  
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## SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.  
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
IMPORTANT: Read this SDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: RED FORCE ALL PURPOSE CLEANER & DEGREASER  
NEW MSDS DATE: 01/05/2011  
COMPANY IDENTITY: CHEMCO INDUSTRIES, INC.  
COMPANY ADDRESS: 5731 Manchester Ave. Saint Louis, MO 63110  
COMPANY CITY: 314-647-1888 • 800-854-4236 • FAX 314-647-1850  
COMPANY PHONE: www.chemcocorp.com • www.chemcocorp-gsa.com  
EMERGENCY PHONES: Email: soap@chemcocorp.com  
CHEMTREC: 1-800-424-9300 (USA)  
CANUTEC: 1-613-996-6666 (CANADA)

### SECTION 2. HAZARDS IDENTIFICATION

#### DANGER!!

EXPOSURE PREVENTION: AVOID ALL CONTACT!

#### RISK STATEMENTS:

R20/22 Harmful by inhalation and if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R35 Causes severe burns.

#### SAFETY STATEMENTS:

S1/2 Keep locked up and out of the reach of children.  
S24/25 Avoid contact with skin and eyes.  
S36/37 Wear suitable protective clothing and gloves.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S45 In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).  
S46 If swallowed, seek medical advice immediately, and show this container or label.

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Water	7732-18-5	231-791-2	85-95
Potassium Hydroxide	1310-58-3	215-181-3	0-10
EDTA Tetrasodium	64-02-8	-	0-5
2-Butoxyethanol	111-76-2	203-905-0	0-5
Nonylphenol Ethoxylate	9016-45-9	-	0-5
Red Dye	-	-	0-1
Sodium Mixed C8 Amphocarboxylate	-	-	0-1

### SECTION 4. FIRST AID MEASURES

#### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

#### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.  
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

#### INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).  
CALL A PHYSICIAN immediately!

#### SWALLOWING:

Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting.  
GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids  
to an unconscious or convulsing person.

### SECTION 5. FIRE FIGHTING MEASURES

#### FIRE & EXPLOSION PREVENTIVE MEASURES

Above flash point, use a closed system, ventilation,

#### EXTINGUISHING MEDIA

Use dry powder, alcohol-resistant foam, water spray, carbon dioxide,  
In case of fire in surroundings, all extinguishing agents allowed. .

#### SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters  
& cool closed containers. Use fog nozzles if water is used.  
Do not enter confined fire-space without full bunker gear.  
(Helmet with face shield, bunker coats, gloves & rubber boots).  
Use NIOSH approved positive-pressure self-contained breathing apparatus.

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## SECTION 5. FIRE FIGHTING MEASURES (CONTINUED)

### UNUSUAL EXPLOSION AND FIRE PROCEDURES

Noncombustible.  
Isolate from oxidizers, acids, heat, & open flame.  
Closed containers may explode if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PROTECTIVE MEASURES:

Keep unprotected personnel away.  
Use complete chemical protective suit with self-contained breathing apparatus.

### ENVIRONMENTAL PRECAUTIONS:

Keep from entering storm sewers and ditches which lead to waterways.

### CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain.  
Sweep spilled material into dry, sealable containers.  
Wash away remainder with plenty of water.

## SECTION 7. HANDLING AND STORAGE

### HANDLING

Use only with adequate ventilation. Avoid or repeated breathing of vapor or spray mist.  
Do not get in eyes, on skin or clothing.  
Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.  
NEVER pour water into this substance. When dissolving or diluting, always add it slowly to the water.  
To minimize static discharge when transferring, ensure electrical continuity by bonding and grounding all equipment. Use an inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

### STORAGE

Keep separated from strong oxidants, strong acids, metals, food & feedstuffs.  
Keep dry. Store in an area having corrosion resistant concrete floor.  
Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.  
Wear full face shield, gloves & full protective clothing when opening or handling.  
When empty, drain completely, replace bungs securely.

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Water	7732-18-5	231-791-2	None Known	None Known
Potassium Hydroxide	1310-58-3	215-181-3	None Known	None Known
EDTA Tetrasodium	64-02-8	-	None Known	None Known
2-Butoxyethanol	111-76-2	203-905-0	50 ppm S	20 ppm S
Nonylphenol Ethoxylate	9016-45-9	-	None Known	None Known
Red Dye	-	-	None Known	None Known
Sodium Mixed C8 Amphocarboxylate	-	-	None Known	None Known

MATERIAL	CAS#	EINECS#	CEILING	STEL(OSHA/ACGIH)	HAP
Potassium Hydroxide	1310-58-3	215-181-3	2 ppm	None Known	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

#### RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### VENTILATION

LOCAL EXHAUST: Necessary                      MECHANICAL (GENERAL): Necessary  
SPECIAL: None                                      OTHER: None  
Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

#### PERSONAL PROTECTIONS:

Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

#### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.



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## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Red
ODOR:	None
ODOR THRESHOLD:	Not Available
pH (Neutrality):	14.0
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP, 50%, Dry Point):	100 100 172°C/212 212 342°F(*=End Point)
FLASH POINT (TEST METHOD):	Not Applicable
EVAPORATION RATE (n-BUTYL ACETATE=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Non-Combustible
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Applicable
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C	17.5
VAPOR DENSITY (air=1):	0.683
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	1.025
POUNDS/GALLON:	8.538
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Applicable
DECOMPOSITION TEMPERATURE:	Not Available
REFRACTIVE INDEX:	1.335
VOC'S (>0.44 Lbs/Sq In) :	0.0 Vol% / 0.0 g/L / 0.000 Lbs/Gal
TOTAL VOC'S (TVOC)*:	2.5 Vol% / 22.9 g/L / .1 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	2.5 Vol% / 22.9 g/L / .1 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% / 0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.052

\* Using California South Coast Air Quality Management District (SCAQMD) Rule 443.1.

## SECTION 10. STABILITY & REACTIVITY

### STABILITY

Stable under normal conditions.

### CONDITIONS TO AVOID

Isolate from oxidizers, acids, heat, & open flame.

### MATERIALS TO AVOID

Reacts violently with fire extinguishers containing water.  
The substance is a strong base, reacts violently with acids and is corrosive.  
Reacts with water generating sufficient heat to ignite combustible materials.  
Reacts violently with strong oxidants, strong acids, causing fire & explosion hazard. Attacks many plastics, rubber, coatings, many metals, such as aluminum, zinc, tin, & lead.  
forming flammable/explosive gas (hydrogen).  
Reacts with ammonium salts to produce ammonia & causing fire hazard.  
Rapidly absorbs carbon dioxide & water from the air.  
Contact with moisture will generate heat.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide,  
Potassium Oxide & Hydroxide from heating.

### HAZARDOUS POLYMERIZATION

Will not occur.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### ACUTE HAZARDS

#### EYE & SKIN CONTACT:

Severe burns to skin, defatting, dermatitis.  
Absorption thru skin increases exposure.  
Severe burns to eyes, redness, tearing, blurred vision.  
Liquid can cause severe skin & eye burns. Wash thoroughly after handling.

#### INHALATION:

Severe respiratory tract irritation may occur. Vapor harmful.  
Breathing vapor can cause irritation.  
Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs.  
The applicable occupational exposure limit value should not be exceeded during any part of the working exposure.

#### SWALLOWING:

Harmful or fatal if swallowed.

### SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### CONDITIONS AGGRAVATED

Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs.  
Persons with severe skin, liver or kidney problems should avoid use.

### CHRONIC HAZARDS

#### CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.  
Absorption thru skin may be harmful.

### MAMMALIAN TOXICITY INFORMATION

MATERIAL	CAS#	EINECS#	LOWEST KNOWN LETHAL DOSE DATA
Ethylene Glycol Butyl Ether	111-76-2	215-181-3	LOWEST KNOWN LD50 (ORAL) 320.0 mg/kg (Rabbits)
Ethylene Glycol Butyl Ether	111-76-2	215-181-3	LOWEST KNOWN LC50 (VAPORS) 700 ppm (Mice)
Ethylene Glycol Butyl Ether	111-76-2	215-181-3	LOWEST KNOWN LD50 (SKIN) 440.0 mg/kg (Rabbits)

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## SECTION 12. ECOLOGICAL INFORMATION

### AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:  
Tidewater Silversides 1250 ppm or mg/L (96 hour exposure).  
Keep out of sewers and natural water supplies.  
The substance may be hazardous in the environment.  
Special attention should be given to water organisms.

### MOBILITY IN SOIL

This material is a mobile liquid.

### DEGRADABILITY

This product is completely biodegradable.

### ACCUMULATION

Bioaccumulation of this product has not been determined.

## SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options.  
Recycle / dispose of observing national, regional, state, provincial and local  
health, safety & pollution laws. If in doubt, contact appropriate agencies.

## SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: UN3266, Corrosive liquid, basic, inorganic, n.o.s.  
(contains: Potassium Hydroxide), 8, PG-II  
DRUM LABEL: (CORROSIVE)  
IATA / ICAO: UN3266, Corrosive liquid, basic, inorganic, n.o.s.  
(contains: Potassium Hydroxide), 8, PG-II  
IMO / IMDG: UN3266, Corrosive liquid, basic, inorganic, n.o.s.  
(contains: Potassium Hydroxide), 8, PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 154

> 13736 LB / 6243 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF  
POTASSIUM HYDROXIDE.

## SECTION 15. REGULATORY INFORMATION

### EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health

All components of this product are on the TSCA list.

### SARA Title III Section 313 Supplier Notification

This product contains the indicated <\*> toxic chemicals subject to the  
reporting requirements of Section 313 of the Emergency Planning & Community  
Right-To-Know Act of 1986 & of 40 CFR 372. This information must be  
included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	EINECS#	WT%	(REG.SECTION)	RQ(LBS)
Potassium Hydroxide	1310-58-3	215-181-3	0-10	(311,312)	1000
*2-Butoxyethanol	111-76-2	203-905-0	0- 5	(313)	None
*Nonylphenol Ethoxylate	9016-45-9	-	0- 5	(302,313,RCRA)	None



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#### SECTION 15. REGULATORY INFORMATION (CONTINUED)

> 13736 LB / 6243 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF POTASSIUM HYDROXIDE.

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

#### STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

CALIFORNIA PROPOSITION 65: This product contains no chemicals known to the State of California to cause cancer & reproductive toxicity.

#### INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL, NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

#### CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

D2B: Irritating to skin / eyes.

E: Corrosive Material.

#### SECTION 16. OTHER INFORMATION

#### HAZARD RATINGS:

HEALTH (NFPA): 1, HEALTH (HMIS): 3, FLAMMABILITY: 0, REACTIVITY: 0  
(Personal Protection Rating to be supplied by user based on use conditions.)  
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

#### EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

#### NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, the Safety Data Sheet is valid until 01/05/2014.