

Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name

Company Name:

Date:

AK-47
DETERGENT AND DEGREASER

Reliant Technologies, Inc.
2933 Hwy 1 North
Port Allen, Louisiana 70767

Revised
5/12/2015

Emergency Phone Number:

Information Phone Number

FAX Number

CHEMTREC 800-424-9300

225-383-7923

225-383-7961

Section 2 - Hazards Identification

GHS Label Elements

GHS Signal Word:
DANGER



THIS MATERIAL IS A RED LIQUID WITH A SLIGHTLY PUNGENT ODOR.

GHS CLASSIFICATION:

Corrosive to Metals
Acute Toxicity, Oral
Health, Serious Eye Damage / Eye Irritation
Health, Skin Corrosion / Damage,

Category 1
Category 4
Category 1
Category 1

GHS LABEL ELEMENTS:

HAZARD STATEMENTS: H290
H302
H314
H402

May Be Corrosive to Metals
Harmful if Swallowed
Causes Severe Skin Burns and Eye Damage
Harmful to Aquatic Life

PRECAUTIONARY STATEMENTS: P260
P264
P280

Do Not Breathe Dusts or Mists
Wash Hands Thoroughly After Handling
Wear Protective Gloves / Protective Clothing / Eye Protection / Face Protection

RESPONSE STATEMENTS: P301 + P330 + P331
P303 + P361 + P353
P304 + P340
P305 + P351 + P338

IF SWALLOWED: Rinse Mouth. Do Not Induce Vomiting
IF ON SKIN (OR IN HAIR): Immediately Take Off All Contaminated Clothing. Rinse Skin With Water / Shower
IF INHALED: Remove Person To Fresh Air and Keep Comfortable for Breathing
IF IN EYES: Rinse Cautiously With Water for Several Minutes. Remove Contact Lenses if Present and Easy to Do. Continue Rinsing.
Immediately Call a POISON CENTER / Doctor / Physician
Wash Contaminated Clothing Before Reuse
Store Locked Up
Dispose of Contents / Container in Accordance With All Federal, State, and Local Regulations

SPECIFIC TREATMENT:

See Section 4 of this SDS, "FIRST AID MEASURES", for additional information

POTENTIAL HEALTH EFFECTS:
(ACUTE and CHRONIC)

Eyes: Causes Severe Eye Burns
Inhalation: May Be Harmful if Inhaled. Material is Extremely Destructive to the Tissue of the Mucous Membranes and Upper Respiratory Tract
Skin: May Be Harmful if Absorbed Through Skin. Causes Skin Burns
Ingestion: May Be Harmful if Swallowed

HMIS CODE INFORMATION:

Health

Flammability

Reactivity / Instability

Personal Protection (PPE)

NFPA HAZARD ID
HMIS HAZARD ID

3

0

0

N/A

3

0

0

H

Section 3 - Composition and Information on Ingredients

This material is defined as a mixture.

Hazardous Components	CAS #	% by Weight	GHS Codes
Sodium Hydroxide	1310-73-2	< 50%	H290, H302, H314, H402

Section 4 - First Aid Measures

FIRST AID	INHALATION:	IMMEDIATELY CALL POISON CENTER OR PHYSICIAN. Remove from exposure and move to fresh air immediately. Give oxygen if breathing is difficult.
	SKIN CONTACT:	Flush skin with plenty of water for at least 15 minutes, immediately removing contaminated clothing and shoes. Wash clothing before re-use. Destroy contaminated shoes.
	EYE CONTACT:	Flush eyes with plenty of water for at least 30 minutes, occasionally lifting the upper and lower eyelids. IMMEDIATELY CALL POISON CENTER OR PHYSICIAN. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required. Remove contact lenses if present and easy to do.
	INGESTION:	Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
	NOTE TO PHYSICIAN:	Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5 - Fire Fighting Measures

FLASH POINT:	NONE	METHOD:	N/A				
FLAMABLE LIMITS (APPROXIMATE VOLUME % IN AIR):				LEL	N/A	UEL	N/A
FIRE EXTINGUISHING MEDIA:	NONE NEEDED - WILL NOT BURN						
FIRE FIGHTING INSTRUCTIONS:	Use water spray to keep fire-exposed containers cool. Store only in plastic containers to avoid container becoming pressurized and exploding due to exposure to heat from fire creating steam inside the container.						
HAZARDOUS COMBUSTION PRODUCTS:	May include CO ₂ , CO, and other toxic gasses or vapors.						

Section 6 - Accidental Release Measures

NOTIFICATION PROCEDURES:	In the event of a spill or accidental release, notify appropriate authorities in accordance with all local, state, and federal regulations.
PROTECTIVE MEASURES:	Use proper personal protective equipment as indicated in Section 8
SPILL MANAGEMENT:	Stop leak if this can be done without risk. Recover spill using pump, vacuum, or absorbant Vacuum or absorb and sweep up material and place into a suitable disposal container. Avoid allowing a spill to be introduced into the environment. Avoid run-off into storm sewers and ditches that lead to waterways. Clean up spills immediately. Assure adequate ventilation.
ENVIRONMENTAL PRECAUTIONS:	For large spills, dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways buildings, and confined areas.

Section 7 - Handling and Storage

HANDLING:	Do not breathe vapor, mist, or liquid. Do not get into eyes, on skin, or on clothing. Do not ingest or inhale. Wash thoroughly after handling. Keep container tightly closed when not in use. Destroy contaminated shoes. Use only with adequate ventilation.
	THIS PRODUCT SHOULD ONLY BE USED AND HANDLED BY TRAINED PERSONNEL
STORAGE:	Store in a tightly closed container when not in use. Store in a cool, dry, well ventilated area away from incompatible substances, such as strong alkalis. Do not store in a glass container

Section 8 - Exposure Controls / Personal Protection

EXPOSURE GUIDELINES	Sodium Hydroxide	<u>ACGIH TLV</u> Ceiling: 2 mg/m3	<u>OSHA PEL</u> TWA: 2 mg/m3	<u>NIOSH IDLH</u> IDLH: 10 mg/m3 Ceiling 2 mg/m3
ENGINEERING CONTROLS:	Provide good general ventilation. If work practices generate dust, fumes, gas, vaport, or mists wich expose workers to chemical levels above the occupational exposure limits, local exhaust ventilation or other engineering controls should be employed. Eyewash stations nd emergency showers should be readily accessible in areas where the product is handled.			
CONTROL MEASURES TO CONSIDER:	Provide adequate ventilation and nearby emergency showers and eyewash stations. Prevent splashing and misting.			
PERSONAL PROTECTION:	Wear splash goggles and chemical resistant, impermeable gloves, impervious protective clothing, including boots and impervious, chemical resistant apron. For severe use conditions, wear a face shield over the goggles.			
RESPIRATORY PROTECTION:	Not required with expected use. If occupational exposure limits are exceeded, or if respiratory irritation occurs, use of a NIOSH / MSHA approved respirator suitable for the use conditions and the chemical(s) shown in Section 3 should be employed.			
SKIN PROTECTION:	Wear rubber of other chemical resistant gloves. Use an impervious, chemical resistant apron, boots, and other protective equipment to shield skin from contact. Avoid skin contact.			
EYE PROTECTION:	Wear splash goggles. For severe use conditions, wear a face shield over the goggles. Avoid eye contact			
SPECIFIC HYGENE MEASURES:	Observe good personal hygiene. Wash after handling product and before eating, drinking, or smoking. Wash work clothes and PPE to remove contaminants. Destroy contaminated shoes/ boots. Practice good housekeeping.			
ENVIRONMENTALS CONTROLS:	Comply with all local, state and federal regulations limiting discharges to air, water, and soil. Apply appropriate control measures to prevent or limit any potential emissions.			

Section 9 - Physical and Chemical Properties

NOTE: Physical and chemical properties are provided for safety, health, and environmental considerations only, and may not fully represent product specifications.

PHYSICAL FORM	Liquid	FREEZE POINT	~ 32 F	
COLOR	Red	BOILING POINT	~ 212 F	
ODOR	Mild Detergent Odor	FLASH POINT	None	Not Flammable
pH	~ 14.0	FLAMMABLE LIMITS, % in air	LEL: N/A	UEL: N/A
SPECIFIC GRAVITY	~ 1.07	VAPOR DENSITY, air = 1	> 1	
SOLUBILITY IN WATER	Complete	EVAPORATION RATE, water = 1	< 1	

Section 10 - Stability and Reactivity

REACTIVITY:	Not reactive, but can be neutralized by the addition of acid, with some generation of heat
STABILITY:	Stable under normal conditions of storage and use
CONDITIONS TO AVOID:	Temperature extremes
MATERIALS TO AVOID:	Strong Acids
HAZARDOUS DECOMPOSITION PRODUCTS:	Contact with aluminum or other non-ferrous reactive metals may release hydrogen gas.
HAZARDOUS POLYMERIZATION:	Temperature extremes can cause product to boil producing steam Will not occur

Section 11 - Toxicological Information

INHALATION	ACUTE TOXICITY	Inhalation of mists can irritate and / or burn respiratory system. Inhalation of mists in sufficient concentrations can cause permanent damage and, extreme cases, death
INGESTION	ACUTE TOXICITY	May be fatal if swallowed and enters airways. Causes gastrointestinal tract burns. May cause severe and permanent damage to the digestive tract.
SKIN	ACUTE TOXICITY IRRITATION / CORROSION	Causes skin burns. Contact with liquid is corrosive and can cause severe burns and ulceration. In extreme cases, exposure can result in the product penetrating the skin and causing severe tissue and bone destruction.
EYE	SERIOUS DAMAGE / IRRITATION	Causes eye burns. May cause chemical conjunctivitis and corneal damage.
SENSITIZATION	RESPIRATORY TRACT SKIN	Not expected to be a respiratory sensitizer, but will severely irritate respiratory tract Not expected to be a skin sensitizer, but can cause skin irritation and burns
ASPIRATION	RESPIRATORY TRACT	Can cause irritation and burns
GERM CELL MUTAGENICITY		Not expected to be a germ cell mutagen.
CARCINOGENICITY		Not expected to cause cancer.
REPRODUCTIVE TOXICITY		Not expected to be a reproductive toxicant
LACTATION		Not expected to cause harm to breast-fed children
SPECIFIC TARGET ORGAN TOXICITY	SINGLE EXPOSURE REPEATED EXPOSURE	Inhalation may cause damage to respiratory system; Ingestion may cause damage to digestive system. Repeated exposure can cause severe tissue and bone destruction
OTHER INFORMATION		

Section 12 - Ecological Information

ECOTOXICITY	A large spill can result in an environmental hazard and can be destructive to aquatic organisms
MOBILITY	Completely water soluble
PERSISTENCE AND DEGRADABILITY	Not determined
BIOACCUMULATION	Not determined

Section 13 - Disposal Considerations

DISPOSAL RECOMMENDATIONS ARE BASED ON UNUSED MATERIAL. DISPOSAL MUST BE IN ACCORDANCE WITH ALL LOCAL STATE AND FEDERAL REGULATIONS AND MUST BE BASED ON THE MATERIAL CHARACTERISTICS AT THE TIME OF DISPOSAL.

DISPOSAL RECOMMENDATIONS:	Dispose according to all local, state, and federal regulations
REGULATORY INFORMATION:	Recycle any spill amount that can be recovered Any waste sent for disposal must be sent to a RCRA approved waste facility Use, processing or contamination of this product may change the waste management / disposal options
EMPTY CONTAINER WARNING:	Empty containers may contain residue and can be dangerous. Do not attempt to clean or refill an empty container. Empty drums should be sent for recycling or disposal in accordance with all governmental regulations.

EMPTY CONTAINERS RETAIN THE HAZARDOUS CHARACTERISTICS OF THE PRODUCT THEY CONTAINED UNTIL THEY HAVE BEEN CLEANED AND / OR RECYCLED

Section 14 - Transportation Information

LAND - US DEPARTMENT OF TRANSPORTATION (US DOT), PROPER SHIPPING NAME:	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS SODIUM HYDROXIDE), 8, PG II
LAND - CANADA TRANSPORTATION OF DANGEROUS GOODS (CANADIAN TDG):	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS SODIUM HYDROXIDE), 8, PG II
MARINE - INTERNATIONAL MARINE DANGEROUS GOODS (IMDG/IMO):	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS SODIUM HYDROXIDE), 8, PG II
AIR - INTERNATIONAL AIR TRANSPORT ASSOCIATION (ICA/IATA):	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS SODIUM HYDROXIDE), 8, PG II

Section 15 - Regulatory Information

OSHA HAZARD COMMUNICATION STANDARD	This product is hazardous per OSHA HazCom 2012, 29 CFR 1910.1200
TSCA STATUS	All components listed, or are exempt
CANADIAN DSL STATUS	All components listed, or are exempt
SARA SECTION 302 and SECTION 304 STATUS	This product does not contain components listed as "Extremely Hazardous Substances"
CERCLA RQ amount	The CERCLA Reportable Quantity for a spill of this product is 1000 pounds.
SARA SECTION 311/312 REPORTABLE HAZARD CATEGORIES	Tier II reportable if stored in sufficient quantities
SARA SECTION 313 TOXIC RELEASE INVENTORY	This product does not contain SARA SECTION 313 listed substances

Section 16 - Other Information

ABBREVIATIONS	N/A	Denotes the section in question "does not apply" to this product
	N/D	Not determined
	STP	Standard temperature and Pressure
	CAS #	Chemical Abstract Service number
	ACGIH	American Conference of Governmental Industrial Hygienists
	NIOSH	National Institute for Occupational Safety and Health
	TLV	Threshold Limit Value
	PEL	Permissible Exposure Limit
	STEL	Short Term Exposure Limit
	NTP	National Toxicology Program
	IARC	International Agency for Research on Cancer
	BOD	Biochemical Oxygen Demand
KEY TO "H" CODES CONTAINED IN SECTION 3:	H290	May Be Corrosive to Metals
	H314	Causes Severe Skin Burns and Eye Damage

THIS SAFETY DATA SHEET IS MADE IN ACCORDANCE WITH GLOBAL HARMONIZATION SYSTEM REQUIREMENTS

Disclaimer:

This safety information is provided to assist customers in assessing measures necessary for compliance with health, safety, and environmental regulations. Individuals handling this product should be informed of the recommended safety precautions, and should have access to this information. The information contained herein is based on available data, and is believed to be accurate. No guarantee or warranty is provided, since the use of this product is within the exclusive control of the user, and it is the user's responsibility to satisfy itself that this information is suitable and complete for its particular use. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product.