

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: 2188
Product Name: RED HEAT
Revision Date: MAY 1, 2023
Manufacturer's Name: JORDAN POWER EQUIPMENT
Address: 281 SOUTHWEST AVE., TALLMADGE, OH 44278
Emergency Phone: 1-800-535-5053
Information Phone Number: 330.630.9444
Product/Recommended Uses: GENERAL PURPOSE CLEANER/DEGREASER
USDA Rating: A1

SECTION 2- HAZARDS IDENTIFICATION

Classification:

Corrosive to Metals – Category 1
Skin Corrosion – Category 1
Serious Eye Damage – Category 1

Pictograms:



Signal Word:

Danger

Hazardous Statements – Physical:

H290 – May be corrosive to metals.

Hazardous Statements – Health:

H314 – Causes severe skin burns and eye damage.

Precautionary Statements – General:

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.

Precautionary Statements – Prevention

P234 – Keep only in original packaging.
P260 – Do not breathe mist or vapors.
P280 – Wear protective gloves, protective clothing, eye protection and face protection.
P264 – Wash hands thoroughly after handling.

Precautionary Statements – Response

P390 – Absorb spillage to prevent material damage.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P363 - Wash contaminated clothing before reuse.
P310 – Immediately call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements – Storage

P406 – Store in a corrosive resistant container with a resistant inner liner.
P405 – Store locked up.

Precautionary Statements – Disposal

P501 – Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0001310-58-3	Potassium Hydroxide	1-3

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4 – FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). If you feel unwell/If concerned: Get medical advice/attention.

Eye Contact

Rinse eyes cautiously with water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.

Skin Contact

Take off all contaminated clothing and shoes immediately. Wash affected areas with plenty of flowing water/shower for a minimum duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER or a doctor. Wash contaminated clothing before reuse or discard.

Ingestion

Rinse mouth. Do NOT induce vomiting unless under the advice of doctor or POISON CONTROL CENTER. Immediately call a POISON CENTER or doctor. If swallowed, concentrate may be corrosive to gastrointestinal system. Dilute stomach by giving water or milk. If vomiting occurs naturally, lie on your side, in the recovery position. NOTE: Never give anything by mouth to an unconscious or convulsing person. Keep person warm and quiet.

Most Important Symptoms/Effects, Acute and Delayed

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed

No data available.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Will not burn. Use extinguishing media suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Fire-Fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Do not touch or walk-through spilled material. Isolate hazard area and keep unnecessary people away. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Neutralize retained product. Wash neutralized product to sewer with large amounts of water in accordance with all federal, state and local laws.

Recommended Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

Personal Precautions

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

SECTION 7 – HANDLING AND STORAGE

General

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Incompatible Materials

Strong oxidizers, acids, aluminum, tin, zinc

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use.

Containers that have been opened must be carefully resealed to prevent leakage. Store at temperatures under 120°F.

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY. FOR USE BY TRAINED PERSONNEL ONLY. KEEP FROM FREEZING.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1.Z2.Z3)	ACGIH TWA (mg/m3)
POTAQSSIUM HYDROXIDE							1	

Chemical	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)
POTASSIUM HYDROXIDE		C2			URT, eye & Skin irr			

Chemical	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
POTASSIUM HYDROXIDE			

"C" - Ceiling limit, (I) – Inhalable fraction, A4 – Not Classifiable as a Human Carcinogen, irr = irritation, URT = Upper Respiratory Tract

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Density	9.05 lb./gal
Density VOC	0.0 lb./gal.
% VOC	0.0%
Appearance	Red Liquid

Odor Description	Mild Chemical
Odor Threshold	N.A.
pH	13.5+
Water Solubility	Complete
Flammability	Will NOT Burn
Flash Point	N.A.
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Pressure	17.5 mmHg (calc. @ 20C)
Vapor Density	N.A.
Melting Point	N.A.
Freezing Point	N.A.
Low Boiling Point	225 F.
High Boiling Point	N.A.
Decomposition Point	N.A.
Auto Ignition Temperature	N.A.
Evaporation Rate	N.A.
VOC Composite Partial Pressure	N.A.

SECTION 10 – STABILITY AND REACTIVITY

Stability

The product is stable under normal storage conditions.

Conditions to Avoid

Keep from freezing.

Incompatible Materials

Strong oxidizers, acids, aluminum, tin, zinc.

Hazardous Reactions/Polymerization

Will not occur.

Hazardous Decomposition Products

None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation

Causes severe skin burns and eye damage

Severe skin irritant. Causes second and third degree burns on short contact.

Serious Eye Damage/Irritation

Causes serious eye damage

Carcinogenicity

No data available

Germ Cell Mutagenicity

No data available

Reproductive Toxicity

No data available

Respiratory/Skin Sensitization

No data available

Specific Target Organ Toxicity - Single Exposure

Higher exposures may cause pulmonary edema.

Specific Target Organ Toxicity - Repeated Exposure

Repeated exposure can lead to permanent lung damage. May cause bronchitis to develop with coughing, phlegm, and/or shortness of breath.

Aspiration Hazard

No data available

Acute Toxicity

0001310-58-3 POTASSIUM HYDROXIDE

LD50 (oral, rat): 365 mg/kg (7)

LD50 (oral, male rat): 273 mg/kg (8)

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

No data available.

Persistence and Degradability

No data available.

Bio-Accumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14 – TRANSPORT INFORMATION

US DOT Information

UN Number UN1760

Proper Shipping Name: Corrosive Liquids, n.o.s. (Potassium hydroxide)

Hazard Class 8

Packaging Group: III

IMDG Information

UN Number UN1760

Proper Shipping Name: Corrosive Liquids, n.o.s. (Potassium hydroxide)

Hazard Class 8

Packaging Group: III

IATA Information

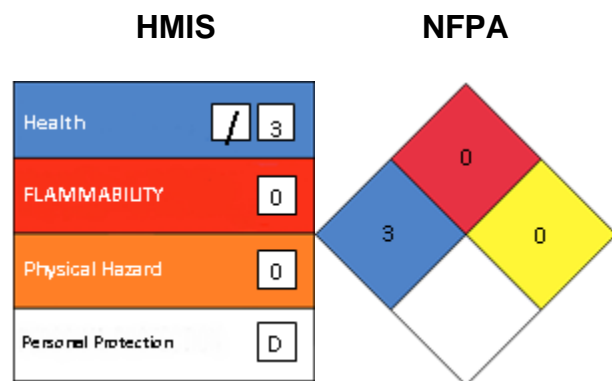
UN Number UN1760
Proper Shipping Name: Corrosive Liquids, n.o.s. (Sodium hydroxide and Potassium hydroxide)
Hazard Class 8
Packaging Group: II

SECTION 15 – REGULATORY INFORMATION

CAS	CHEMICAL NAME	% BY WEIGHT	REGULATION LIST
0001310-58-3	Potassium Hydroxide	1 - 3	CERCLA, SARA 312, TSCA, ACGIH,

SECTION 16 – OTHER INFORMATION

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks.

DISCLAIMER

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