MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Sodium Peroxide

KED-1024

Alpha Resources, Inc.
P.O. Box 199
Stevensville, MI 49127
Phone: 269-465-5559

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
1310-73-2.	1-7	Sodium Hydroxide	2	N/A
1313-60-6	93-99	Sodium Peroxide	N/A	N/A

3. HAZARD IDENTIFICATION

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate
Flammability Rating: 0 - None
Reactivity Rating: 3 - Severe (Oxidizer)
Contact Rating: 3 - Severe
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES
Storage Color Code: Yellow (Reactive)

Potential Health Effects

Inhalation:
Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
Ingestion:
Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach. Can cause sore throat, vomiting, diarrhea.
Skin Contact:
Corrosive. Symptoms of redness, pain, and severe burn can occur.
Eye Contact:
Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns.
Chronic Exposure:
No information found.
Aggravation of Pre-existing Conditions:
No information found.

4. FIRST AID MEASURES

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing

is difficult, give oxygen. Get medical attention immediately.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Fire:

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Explosion:

Contact with combustible, organic, or oxidizable substances may cause extremely violent combustion. May react explosively in contact with large amounts of water.

Fire Extinguishing Media:

Dry chemical or pulverized dolomite. DO NOT USE WATER, CARBON DIOXIDE, HALOCARBON or Wet Chemical Extinguishers.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEARURES

Clean-up personnel should wear protective clothing and respiratory equipment suitable for toxic or corrosive fluids or vapors.

Do not save for reclamation. Cover with double volume of sand-soda ash mixture (90%-10%). Mix thoroughly and break up any lumps of peroxide. As an alternate, with a plastic scoop, add mixture slowly to a large amount of water with stirring. Neutralize with dilute sulfuric acid. When settled decant the sulfate solution into the drain with excess water.

7. HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling. Use with adequate ventilation. Do not allow water to get into the container because of the potential for a violent reaction. Do not get in eyes, on skin or on clothing. Do not ingest or inhale.

STORAGE: Keep container closed. Store in a cool, dry well-ventilated area way from strong acids, water, metals, flammable liquids, and organic halogens.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as

possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

White to pale yellow granules.

Odor:

Odorless.

Solubility:

Reacts violently in water.

Density:

2.81

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

657C (1215F)

Melting Point:

460C (860F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. STABILITY AND REACTIVITY

Stability:

Stable under ordinary conditions of use and storage. Water reactive.

Hazardous Decomposition Products:

Emits oxygen when heated to decomposition which may increase a fire hazard.

Toxic oxides of sodium and metallic sodium fumes may also be released.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Moisture, organic and oxidizable substances, acetic acid, acetic anhydride, aluminum, aluminum plus carbon dioxide, ammonium persulfate, aniline, antimony, arsenic, benzene, boron nitride, calcium carbide, charcoal, dextrose plus potassium nitrate, diethyl ether, glycerine, hexamethylenetetramine, hydrogen sulfide, magnesium, magnesium plus carbon dioxide, manganese dioxide, organic matter, phosphorus, potassium selenium monochloride, silver chloride plus charcoal, sodium, sulfur monochloride, tin, and zinc, reducing agents.
Conditions to Avoid:
Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure.

--------\Cancer Lists\----------

Ingredient	---NTP Carcinogen--- Known	Anticipated	IARC Category
Sodium Peroxide (1313-60-6)	No	No	None

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available. No information available.
Environmental: No information available.
Physical: No information available.
Other: Do not empty into drains.

13. DISPOSAL CONSIDERATION

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.)

Proper Shipping Name: SODIUM PEROXIDE
Hazard Class: 5.1
UN/NA: UN1504
Packing Group: I
Information reported for product/size: 500G

International (Water, I.M.O.)

Proper Shipping Name: SODIUM PEROXIDE
Hazard Class: 5.1
UN/NA: UN1504

Packing Group: I
Information reported for product/size: 500G

15. REGULATORY INFORMATION

US FEDERAL

TSCA
CAS# 1313-60-6 is listed on the TSCA inventory.
CAS# 1310-73-2 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 1313-60-6: immediate, fire, reactive.
CAS # 1310-73-2: immediate, reactive.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.
STATE
CAS# 1313-60-6 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.
CAS# 1310-73-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European / International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
O C
Risk Phrases:
R 35 Causes severe burns.
R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 27 Take off immediately all contaminated clothing.
S 39 Wear eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 8 Keep container dry.

WGK (Water Danger/Protection)

CAS# 1313-60-6: 1
CAS# 1310-73-2: 1

Canada - DSL/NDSL

CAS# 1313-60-6 is listed on Canada's DSL List.
CAS# 1310-73-2 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of C, E.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 1310-73-2 is listed on the Canadian Ingredient Disclosure List.

16. OTHER INFORMATION

NFPA Ratings: Health: **3** Flammability: **0** Reactivity: **1** Other: **Oxidizer**
Label Hazard Warning:
DANGER! CORROSIVE. STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.
Label Precautions:
Do not get in eyes, on skin, or on clothing.
Do not breathe dust.
Keep container closed.
Use only with adequate ventilation.
Keep from contact with clothing and other combustible materials.
Wash thoroughly after handling.
Label First Aid:
If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases get medical attention immediately.
Product Use:
Laboratory Reagent.

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

Date Prepared: January 14, 2013
Prepared by: Ken Mantei