

1. IDENTIFICATION

Product ID: OK002
 Product Name: OxyKem
 Other Names: Hydrogen peroxide sodium carbonate adduct
 Supplier: ARC Products, Inc
 1110 Keystone Ave
 Catoosa, OK 74015
 USA
 Telephone: 1-855-552-6789
 Fax: 918-266-6796
 CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

In its bulk form, the material is an oxidizing agent which can be decomposed by water or direct sources of heat. Decomposition releases oxygen and heat (exothermic). Not a fire hazard, however decomposition in the presence of combustible materials (wood, cloth, etc.) may cause fire. Can react with alkaline materials or metals. Can react and emit toxic fumes if mixed with products containing chlorine or other sanitizing ingredients. Use and store under adequate ventilation

GHS CLASSIFICATION

Oxidizing Solid (Category 2)
 Eye Damage (Category 1)
 Acute Toxicity (Category 4)

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM



SIGNAL WORD: Danger

HAZARD STATEMENT(S) (3)

H272 May intensify fire; oxidizer

H302 Harmful if swallowed

H318 Causes serious eye damage

PRECAUTIONARY STATEMENT(S) (6)

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+312 IF SWALLOWED, Call a POISON CENTER or doctor/physician if you feel unwell

P305+351+338 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/physician

P330 Rinse mouth

HMIS CLASSIFICATION

Health Hazard: 2
 Chronic Health Hazard: NA
 Flammability: 0
 Physical Hazards: 2

NFPA CLASSIFICATION

Health Hazard: 2

Fire: 0
 Reactivity Hazard: 2
 Special Hazard: OX

3. COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYMS: Hydrogen peroxide sodium carbonate adduct
FORMULA: $CNa_2O_3 \cdot 1.5H_2O_2$
MOLECULAR WEIGHT: 157.01 g/mol

Component	CAS Number	EC Number	Concentration	TLV
Sodium percarbonate	15630-89-4		>70	
Sodium carbonate, monohydrate	5968-11-6		>15	
Acetamide, N,N`-1,2-ethanediylbis[N-acetyl- Comment: TAED	10543-57-4		<10	
Pectinase	9032-75-1		<5	
Lipase, triacylglycerol	9001-62-1		<5	
Subtilisins (proteolytic enzymes)	9014-01-1		<5	
Amylase, .alpha.-, Aspergillus oryzae	9001-19-8		<5	

4. FIRST AID MEASURES

GENERAL ADVICE

Consult a physician. Show this safety data sheet to the doctor in attendance.

IF INHALED

Immediately move from area of exposure to fresh air. If breathing is difficult have a trained person administer oxygen. If breathing has stopped, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

IN CASE OF SKIN CONTACT

Remove contaminated clothing, including footwear. Wash contaminated areas thoroughly with soap and water. Wash clothing before reuse. Do not reuse footwear that is contaminated on the inner surfaces. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

IN CASE OF EYE CONTACT

Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to insure complete irrigation of all eye and lid tissues. If irritation persists, seek medical attention.

IN SWALLOWED

Never give anything by mouth to an unconscious person. If ingested, do not induce vomiting. If the patient is conscious and can swallow, first rinse out mouth and then give one or two glasses of water to drink. GET MEDICAL ATTENTION IMMEDIATELY.

5. FIREFIGHTING MEASURES

CONDITIONS OF FLAMMABILITY

NA

SUITABLE EXTINGUISHING MEDIA

Flood with water for extinguishing agent.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

No data available

HAZARDOUS COMBUSTION PRODUCTS

Oxidizing substance which can be decomposed by water, direct sources of heat, catalysts, etc. Decomposition releases oxygen and heat which can support combustion and cause pressure bursts in confined spaces or containers Decomposition in the presence of organic materials can be highly exothermic and may cause combustion.

FURTHER INFORMATION

Use water spray to cool unopened containers. Intervention only by capable personnel who are trained and aware of the hazards of the

product. The personnel should wear normal protective equipment and positive self-contained breathing apparatus. Move unaffected product to a safe area if safe to do so.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Observe the protection measures given in sections 5 and 8. Avoid materials and products which are incompatible with the product (see section 10)

Avoid direct contact of the product with moisture, except for emergencies and clean-up as described in this MSDS

ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Keep away from sources of ignition. Clean and drip process piping and equipment before using the product. Never return unused product to original container. Keep away from incompatible products
Containers and equipment used to handle the product should be used exclusively for that product. Avoid any contact with moisture or humidity, except for emergencies and clean-up as described in this MSDS

CONDITIONS FOR SAFE STORAGE

Store in vented containers in a cool, dry and well-ventilated place. Keep away from heat and humidity sources. Keep away from reactive products

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Component	CAS Number	Value	Control Parameters	Basis	Remarks
Sodium percarbonate	15630-89-4	NA	NA	NA	Contains no substances with occupational exposure limit values.
Acetamide, N,N'-1,2-ethanediylbis[N-acetyl-	10543-57-4	NA	NA	NA	Contains no substances with occupational exposure limit values.
Sodium carbonate, monohydrate	5968-11-6	NA	NA	NA	Contains no substances with occupational exposure limit values

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Specific respirator should be selected based on contamination levels found in the work place and jointly approved by the national Institute of Occupational Safety and Health (NIOSH) and the Mine Safety and Health Administration (MSHA)

HAND PROTECTION

Appropriate impervious and chemical resistant gloves

EYE PROTECTION

Splash-proof or dust-proof safety goggles and face shield

SKIN AND BODY PROTECTION

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

HYGIENE MEASURES

Wash hands carefully and thoroughly after handling. Remove contaminated clothing and wash before reuse.
Avoid contact with skin and eyes

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Form: Granular, solid
Color: white and blue

SAFETY DATA

pH: 10.0 ± 1.0 (1% Solution)
Melting Point: No Data Available
Boiling Point: No Data Available
Flashpoint: Not Applicable
Ignition Temperature: No Data Available
Auto-ignition Temperature: Not Applicable
Lower Explosion Limit: No Data Available
Upper Explosion Limit: No Data Available
Vapor Pressure: No Data Available
Density: 0.95 – 1.08 (g/l)
Water Solubility: 140 g/l @ 24° C (75° F)
Partition Coefficient(n-octanol/water): No Data Available
Relative Vapor Density: No Data Available
Odor: Odorless
Odor Threshold: No Data Available
Evaporation Rate: No data available
Active Oxygen: 10.0% up

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

no data available

CONDITIONS TO AVOID

Heat or flame. Moisture, except for emergencies and clean-up as described in this MSDS

MATERIALS TO AVOID

Water and other liquids, except for emergencies and clean-up as described in this MSDS, Acids, Bases, Salts of metals, (alkaline materials or metals), Reducing agents, Organic materials, Flammable substances

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition releases oxygen and heat which can support combustion and cause pressure bursts in confined spaces or containers. Decomposition in the presence of organic materials can be highly exothermic and may cause combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral LD50

Based on Sodium Percarbonate - rat - 1,034 mg/kg

Inhalation LC50

no data available

Dermal LD50

Based on Sodium Percarbonate - rabbit - > 2,000 mg/kg

Other Information on Acute Toxicity

no data available

SKIN CORROSION/IRRITATION

Varying severities of irritation are possible from prolonged, repeated or occluded exposure to skin. Contact on a burn or other wound likely to cause stinging pain or irritation.

SERIOUS EYE DAMAGE/EYE IRRITATION

Potential for severe irritation, Corneal damage on extended exposure.

RESPIRATORY OR SKIN SENSITIZATION

no data available

GERM CELL MUTAGENICITY

no data available

CARCINOGENICITY**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY

no data available

TERATOGENICITY

no data available

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE(GLOBALLY HARMONIZED SYSTEM)

no data available

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE(GLOBALLY HARMONIZED SYSTEM)

no data available

ASPIRATION HAZARD

no data available

SIGNS AND SYMPTOMS OF EXPOSURE

Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Inflammation/damage of the eye tissue. Corrosion of the eye tissue. Nausea. Vomiting

SYNERGISTIC EFFECTS

no data available

ADDITIONAL INFORMATION

None

12. ECOLOGICAL INFORMATION

TOXICITY

Based on Sodium Percarbonate -

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 70.7 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC0 - Daphnia magna (Water flea) - 2 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - 4.9 mg/l - 48 h

PERSISTANCE AND DEGRADABILITY

Not Available

BIOACCUMULATIVE POTENTIAL

No Data available

MOBILITY IN SOIL

no data available

PBT AND vPvB ASSESSMENT

no data available

OTHER ADVERSE EFFECTS

No Data available

13. DISPOSAL CONSIDERATIONS

PRODUCT

RERA hazardous waste #D001 if discarded. Dispose of in an approved waste facility operated by an authorized contractor in compliance with relevant regulations.

CONTAMINATED PACKAGING

The empty and clean containers are to be recycled or disposed of in conformity with state and local regulations

14. TRANSPORT INFORMATION

DOT(US)

Regulated:	No
UN Number:	NA
Class:	NA
Packing Group:	
Subrisk:	
Proper Shipping Name:	Sodium carbonate peroxyhydrate
Reportable Quantity(RQ):	NA
Marine Pollutant:	No
Poison Inhalation Hazard:	No
Hazard Label:	

IMDG

UN Number:	NA
Class:	NA
Proper Shipping Name:	Sodium carbonate peroxyhydrate
EMS-No:	NA
Marine Pollutant:	No

IATA

UN Number:	NA
Class:	NA
Proper Shipping Name:	Sodium carbonate peroxyhydrate

COMMENTS

Although main ingredient is classified as a 5.1 oxidizer, Material is not classified as a 5.1 oxidizer because of burn times not matching UN DOT Criteria. Reference Stresau Laboratory, Inc. report #09138.

15. REGULATORY INFORMATION

OSHA HAZARDS

In its bulk form, the material is an oxidizing agent which can be decomposed by water or direct sources of heat. Decomposition releases oxygen and heat (exothermic). Not a fire hazard, however decomposition in the presence of combustible materials (wood, cloth, etc.) may cause fire. Can react with alkaline materials or metals. Can react and emit toxic fumes if mixed with

products containing chlorine or other sanitizing ingredients. Use and store under adequate ventilation

SARA 302 COMPONENTS

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 COMPONENTS

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 HAZARDS

Reactivity Hazard, Acute Health Hazard

ADDITIONAL INFORMATION

None

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

Component	CAS Number	Revision Date
Sodium carbonate monohydrate	5968-11-6	
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	
N,N'-Ethylenebis[N-acetylacetamide]	10543-57-4	

NEW JERSEY RIGHT TO KNOW COMPONENTS

Component	CAS Number	Revision Date
Sodium carbonate monohydrate	5968-11-6	
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	
N,N'-Ethylenebis[N-acetylacetamide]	10543-57-4	

CALIFORNIA PROP. 65 COMPONENTS

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

The information in this document is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use or improper storage or handling. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of their suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of the employees and customers.