# **UNITED 482**



## MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME USE/DESCRIPTION UNITED 482 O2 PLUS Water Soluble Packets

FOR MEDICAL AND TRANSPORTATION EMERGENCIES 24 Hour INFOTRAC (US and CANADA): **800-535-5053**REVISION DATE

September 19, 2013

## HMIS III HEALTH (0 = Maximum Safety)

Always follow Label Directions and Cautions.

\* Chronic 2 Moderate
4 Severe 1 Slight
3 Serious 0 Minimal

See Hazards Identification Section of this MSDS

for more detailed information.

## PHYSICAL HAZARD (0 = Maximum Safety)

Susceptible to Release of Energy.

 May detonate-vacate area if materials are exposed to fire.
 Strong shock of heat may detonate-use monitors from behind explosion resistant 2 Violent chemical change possible-use hose stream from distance1 Unstable if heated-use

precaution.

Normally stable.

## FLAMMABILITY (0 = Maximum Safety)

Susceptibility of Material to Burning.

4 Extremely flammable. 1 Must be preheated

3 Ignites at normal temperature. to burn.2 Ignites when moderately heated. 0 Will not burn.

pe preheated

2

0



PERSONAL PROTECTION: E

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

			ACGIH	OSHA	LD50	LC50
Hazardous Ingredients	CAS#	%Range (	TLV-TWA)	(PEL-TWA)	(Species/Route)	(Species)
Calcium peroxide concentration	1305-79-9	>= 75 - <=80	0.2 mg/m3	5 mg/m3 Ceiling	780 mg/kg (rat/oral)	NE
Calcium hydroxide concentration	1305-62-0	>=10 - <=25	NE	0.1 mg/m3	NE	NE
Other inorganic Calcium compounds concentration	Proprietary	>=10 - <=25	NE	15 mg/m3	NE	NE

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Oxidizing, risk of serious damage to eyes, irritating to respiratory system and skin and contact with combustible material may cause fire.

Eyes: Corroisve. May cause irreversible eye damage. Symptoms may be redness, lachrymation, and swelling of tissue.

Skin: May cause irritation and/or itching. Repeated exposure may cause skin dryness or cracking.

**Inhalation:** May cause irritation of the upper resiratory tract, irritating to mucous membranes. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Possible risk of nose bleeding.

Ingestion: May cause severe irritation causing nausea, abdominal pain, vomiting, and diarrhoea.

## 4. FIRST AID MEASURES

**Eyes:** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of difficult of opening the lids, administer an analgesic eye wash (oxybuprocaine). Consult with an ophthalmologist immediately in all cases.

**Skin:** Remove and wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. Let person blow their nose. If symptoms persist, call a physician.

**Ingestion:** DO NOT induce vomiting. Rinse mouth with water if conscious. If accidentally swallowed obtain immediate medical attention. Oxygen or artificial respiration if needed.

## 5. FIRE FIGHTING MEASURES

Flash Point (TCC): None Explosive Limits: Lower (LEL): ND Upper (UEL): ND Flame Projection (Aerosol): NA

Hazardous Products of Combustion: When strongly heated, such as a fire decomposition product is oxygen.

**Fire and Explosion Hazards:** Oxygen released in thermal decomposition may support combustion. Contact with combustible material may cause fire. Contact with flammables may cause fire or explosions. Risk of explosion if heated under confinement. **Extinguishing Media:** Use water or water spray.

**Fire Fighting Instructions:** If material is involved in a fire, flood with water. Cool all affected containers with large quantities of water. Apply water from as far a distance as possible. Wear self-contained breathing apparatus and full protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Should not be released into the environment. Flush into sewer with plenty of water.

If large quantities and the product contaminates rivers, lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up:** Sweep up and shovel into suitable containers for disposal. Do not mix waste streams during collection. Avoid dust formation. Never return spills in original containers for re-use. Treat recovered material as described in the "Disposal considerations".

## 7. HANDLING AND STORAGE

**Handling**: Avoid dust formation. Ensure adequate ventilation. Keep away from heat and sources of ignition. Keep away from incompatible products. Use only clean and dry utensils. Never return unused material to storage receptacle.

**Storage**: Keep only in the original container properly labeled. Keep in a well-ventilated dry place. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not let temperature exceed 104F/40C. Avoid dust formation. Keep away from incompatible products.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses or safety googles are recommended.

**Skin:** Chemical resistant gloves (rubber or plastic gloves) are recommended. If dust is produced use dust impervious protective suit. **Respiratory:** Where overexposure may exist, the use of an approved NIOSH/MSHA dust respirator is advised. Engineering or administrative controls should be implemented to control dust.

**Engineering Controls:** Provide sufficient area or local exhaust to maintain exposure below the TLV-TWA. Provide appropriate exhaust ventilation at places where dust is formed.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: NA Specific Gravity: 2.050 (H2O=1) Vapor Pressure: NA Melting Point: 527F/275C Vapor Density: NA

Evaporation Rate: ND Solubility in Water: Slightly – Decomposes in contact with water pH: NA

Appearance and Odor: White powder in water soluble packets odourless.

### 10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: When strongly heated, decomposition is oxygen.

Chemical Stability: Stable under recommended storage conditions.

Conditions to avoid: Exposure to moisture. Keep at temperature not exceeding: 527F/275C.

Incompatibility: Acids, Bases, Heavy metal salts, Reducing agents, Organic materials, Flammable materials.

### 11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

Acute oral toxicity: LD50, rat, >2,000 mg/kg Acute inhalation toxicity: LC50, rat, >5,000 mg/kg Acute dermal irritation/corrosion: LD50, rat >2,000 mg/kg Skin irritation: rabbit, no skin irritation: rabbit, severe eye irritation: No

## 12. ECOLOGICAL INFORMATION

Acute toxicity: fishes LC50, 48 h, 160 mg/l

Mobility: Air - NA Water - Low solubility and mobility Soil/sediments - no data available

Persistence and degradability: Air – NÁ Water/soil – complexation/precipitation of inorganic materials Water – hydrolyses

Biodegradation: The methods for determining biodegradability are not applicable to inorganic substances.

Remarks: Diluted product is rapidly neutralized at environmental PH. Aquatic toxicity is unlikely due to low solubility. Does not bioaccumulate.

## 13. DISPOSAL CONSIDERATIONS

Consult your local, state and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

Unlisted RCRA Hazardous Waste (40 CFR 302) - Yes D001 (ignitable waste).

## 14. TRANSPORT INFORMATION

DOT- Land: UN 1457, Calcium Peroxide, 5.1, PG II

TDG: UN 1457, Calcium Peroxide, 5.1, PG II

UN-IATA & IMDG: UN 1457, Calcium Peroxide, 5.1, PG II

## 15. REGULATORY INFORMATION

VOC (Volatile Organic Compounds): None

TSCA (Toxic Substances Control Act): Listed in USA, Australia - Listed, Canada (DSL) Listed, Korea - Listed, EU (EINECS) - Listed

SARA Title III Section 302 EHS: Not regulated

SARA Title III Section 311/312: Acute Health Hazard - Yes, Fire Hazard - Yes

SARA Title III Section 313 Toxic Chemicals: No regulated

WHMIS Classification: C - Oxidizing Material, D2B - Toxic Material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

## **16. OTHER INFORMATION**

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

**UNITED 482 O2 PLUS** 

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