MATERIAL SAFETY DATA SHEET

SECTION 1- PRODUCT AND MANUFACTURER INFORMATION

MSDS DATE: 8/1/2010

TRADE NAME/SYNONYMS:	**OCTAGON OCC (NOC)**
CHEMICAL NAME/SYNONYMS:	Oxygen Cleaning Compound
CHEMICAL FAMILY:	Silicated Alkaline Cleaners
FORMULA:	Mixture

MANUFACTURED BY

OCTAGON PROCESS
Serviced by Katapullt LLC
30 Ramland Rd, Ste 103
Orangeburg, NY 10962

EMERGENCY

CHEMTREC……800-424-9300
COMPANY EMERGENCY PHONE…..800 423-3375

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
Polysilicate Anions	1344-09-8	9.3 to 10.0	NONE ESTABLISHED.	NONE ESTABLISHED

Product is not considered carcinogenic by NTP, IARC or OSHA

SECTION 3 - HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH=1 FLAMMABILITY=0 REACTIVITY=0 PROTECTION=H

SECTION 4 - HEALTH HAZARD DATA

HEALTH EFFECTS *(Acute And Chronic)*

EYES: Will cause redness, irritation and burns. (11 < pH < 12)

SKIN: May cause severe irritation and burns; in milder cases will cause a skin rash. Will also cause cold and clammy skin with bluish or pale color.

INHALATION: Under certain conditions, may cause breathing discomfort, such as sneezing, coughing, and irritation.

INGESTION: Will cause nausea, vomiting and abdominal pain. May cause painful swallowing, profuse salivation with burns to the mouth, esophagus, stomach, and lower G.I. tract.

PRIMARY ROUTES OF ENTRY-
EYES/SKIN: Yes INHALATION: Possible INGESTION: Not likely

(See additional information in Section 14)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE pre-existing respiratory conditions

SECTION 5 - FIRST AID INSTRUCTIONS

EYES: Flood with water for at least 15 minutes. Get immediate medical attention.
SKIN: Flush with water for at least 15 minutes. If irritation occurs and persists, get medical attention. If burns occur, wrap in dry, sterile dressings and get immediate medical attention.
INHALATION: Move victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration (mouth to mouth is preferred) if trained - get immediate medical attention.
INGESTION: DO NOT INDUCE VOMITING. If victim is conscious, administer 4-8 oz. of water to dilute stomach contents. Rinse mouth thoroughly. Get immediate medical attention.
NOTE: 11<pH< 12

SECTION 6 - CHEMICAL DATA

BOILING POINT (F):	240°F	SPECIFIC GRAVITY (WATER=1):	1.099
VAPOR PRESSURE:	17mmHg	PERCENT VOLATILE BY VOLUME (%):	85%
VAPOR DENSITY (AIR=1):	0.4	EVAPORATION RATE (Acetone =1):	< 1

SOLUBILITY IN WATER - Complete

APPEARANCE AND ODOR INFORMATION - Clear water-white liquid, odorless.

INCOMPATIBILITY (Materials To Avoid) - Acids

HAZARDOUS DECOMPOSITION PRODUCTS - Oxides of silicone

WILL HAZARDOUS POLYMERIZATION OCCUR - No

CONDITIONS TO AVOID FOR POLYMERIZATION None

IS THE PRODUCT STABLE- Yes

CONDITIONS TO AVOID FOR STABILITY- Avoid contact with acids

SECTION 7 – FIRE FIGHTING INFORMATION

FLASH POINT (Method Used): None (TCC) FLAMMABLE LIMITS: NA

EXTINGUISHING MEDIA - Water spray or fog, foam, dry chemical or C02

SPECIAL FIRE FIGHTING PROCEDURES - Keep fire-exposed containers cool with water spray. Wear chemical resistant clothing and NIOSH/MSHA-approved SCBA (as recommended by the NFPA).

UNUSUAL FIRE AND EXPLOSION HAZARDS - None known

SECTION 8 - SPILL OR LEAK/DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - Neutralize spill with dilute muriatic or acetic acid, absorb with inert material and place into proper containers for disposal. Comply with all spill notification regulations. All response activities must comply with HAZWOPER (refer to 29CFR 1910.120).

WASTE DISPOSAL METHODS-
Dispose of waste in compliance with local, state and federal regulations. Recycle waste where applicable. This should not be considered a 'hazardous waste'.

SECTION 9 – TOXICOLOGY INFORMATION

After 96 hour exposure to 5000ppm of OCC, 100% of Fathead minnows survived

SECTION 10 – ECOLOGICAL INFORMATION

Data not available

SECTION 11 - EXPOSURE CONTROL AND PROTECTION

VENTILATION Use forced-air ventilation when handling product in a confined area

RESPIRATORY PROTECT ION - If product is heated above 200°F, the use of NIOSH/MSHA-approved respiratory protection is recommended (refer to 29CFR 1910.134).

PROTECTIVE GLOVES - Neoprene, Rubber or PVC

OTHER PROTECTIVE EQUIPMENT - Always use eye protection when handling chemicals. If excessive splashing is expected, use a face shield and rubber apron during handling. Provide local emergency showers and eyewash stations.

OTHER ENGINEERING CONTROLS - Use forced ventilation if respiratory discomfort is noted.

WORK PRACTICES - Avoid eye/skin contact and breathing of vapors/mist. All users should consult the MSDS before handling this product ($11 < pH < 12$).

HYGIENIC PRACTICES - Wash hands and face after handling this material. Remove contaminated clothing and flush exposed skin areas thoroughly with water. Launder contaminated clothing before re-use

SECTION 12 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - Store in a cool, dry place. Store product away from acids and oxidizers. Keep containers closed when not in use.

SECTION 13 - SPECIAL PRECAUTIONS

MAINTENANCE PRECAUTIONS - Clean all contaminated equipment before starting any repair work.

SECTION 14 – OTHER INFORMATION

The following information is included pursuant to the requirements of MIL-DTL-24800 (6.7)

Skin contact with product will result in irritation and chemical burns. Wear impervious clothing constructed of neoprene or other material of equivalent resistance to penetration so as to prevent skin contact. Use elbow-length gloves (with cuffs) as minimum protection any time open containers of product are handled. Wash potentially exposed skin areas with soap and water at breaks, and at the conclusion of operations. Thoroughly clean protective garments at the conclusion of operations and store for reuse. Remove clothing which becomes contaminated as soon as possible and thoroughly clean before reuse. Seek prompt medical assistance should a rash, chemical burn or other adverse effect be experienced which may be related to working with product. Do not store and consume food and tobacco in areas where they could be contaminated with product.

Eye contact with product could result in chemical burns, Wear chemical worker's goggles for all operations where eye contact with product could occur. Use a full length face shield for any operation where splashing of the product could occur. In the event of eye contact, personnel should flush their eyes thoroughly with fresh water for a minimum of 15 minutes, then seek prompt medical attention. Provide emergency eyewash systems near the work area conforming to the design requirements of the American National Standards Institute (ANSI).

Over-exposure to mists or vapors of product may result in sneezing, coughing, respiratory system irritation and possible chemical burns and subsequent edema in the upper airways. Based on off-gas testing at temperatures up to 82°C (180°F), such a possibility is unlikely considering the magnitude and frequency of use. In the event any adverse effects are experienced, cease operations involving product and consult the cognizant medical department representative for additional guidance.

SECTION 15 – REGULATORY INFORMATION

NEW JERSEY RIGHT TO KNOW INFORMATION-

7732-18-5	Water
1344-09-8	Polysilicate Anions
13755-29-8	Sodium Tetrafluoroborate

This product contains no components that are regulated under SARA III Section 313 Supplier Notification Requirements.

All components are listed on the TSCA Inventory.

PRODUCT IS NON-TOXIC. FOR USE IN ANY LIFE SUPPORT SYSTEM INCLUDING MULTIPLE-ATMOSPHERE DIVING SYSTEMS.

DOT INFORMATION Product is not regulated by DOT.

SECTION 16 – HAZARDOUS MATERIAL IDENTIFICATION GUIDE

The follow letter codes refer to personal protective equipment (PPE) recommendations as shown in SECTION 3 of this MSDS, relative to handling hazardous chemical products.

A	Safety Glasses
B	Safety Glasses, Hand Protection
C	Safety Glasses, Hand Protection, Protective Apron
D	Full Face Shield, Hand Protection, Protective Apron
E	Safety Glasses, Hand Protection, Dust Respirator
F	Safety Glasses, Hand Protection, Dust Respirator, Protective Apron
G	Safety Glasses, Hand Protection, Vapor Respirator
H	***Splash Goggles, Hand Protection, Protective Apron, Vapor Respirator***
I	Safety Glasses, Hand Protection, Dust & Vapor Respirator
J	Safety Glasses, Hand Protection, Protective Apron, Dust & Vapor Respirator
K	Air Line Hood or Mask, Hand Protection, Full Body Suit, protective Boots
X	Unspecified – to be determined* (*special equipment selection for site-specific applications not otherwise shown here)

The above information is accurate to the best of our knowledge, however, since data, safety standards and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Octagon Process assumes no responsibility for any injury or loss resulting from the use of the product described herein.

Prepared according to the OSHA Hazard Communication Standard (29CFR 1910.1200) by Octagon Process.