

# MATERIAL SAFETY DATA SHEET

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HAZARD RATINGS (0=Least, 1=Slight, 2=Moderate, 3=High, 4=Severe)

HEALTH = 2  
FIRE = 0  
REACTIVITY = 1  
EQUIPMENT = E

## SECTION I - PRODUCT DESCRIPTION

PRODUCT NAME: **POWDERED OXYGEN CLEANER**  
PRODUCT CODE: **N-53**  
GENERAL DESCRIPTION: All Purpose Oxygen Cleaner  
CHEMICAL NATURE: Oxidizer, Builder Blend

## SECTION II - PRODUCT COMPOSITION (OSHA Listed Potentially Hazardous Ingredients)

Sodium Percarbonate CAS 4452-58-8 39%-61%  
Sodium Carbonate CAS 497-18-1 38%-60%

## SECTION III - PHYSICAL PROPERTIES

BOILING RANGE: Decomposes above 266 Deg. F.  
MELTING POINT: 145 Deg. F.  
VAPOR PRESSURE AT 20C: (MM of HG) N/A  
VAPOR DENSITY: (Air = 1) N/A  
SOLUBILITY IN WATER: 30 g/Kg @ 77 Deg. F.  
SOLUBILITY IN SOLVENT: Insoluble  
EVAPORATION RATE: N/A  
APPEARANCE: White crystalline solid  
ODOR: Odorless  
PH RANGE: Alkaline

## SECTION IV - FIRE AND EXPLOSION DATA

LOWER FLAMMABILITY LIMITS: (% In Air) Not pertinent  
FLASH POINT: (And Method) >200 F  
FLAMMABILITY CLASSIFICATION: Not flammable  
UNUSUAL FIRE/EXPLOSION HAZARDS: Decomposes with liberation of heat and oxygen which may intensify fire in combustible surroundings

RECOMMENDED EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL OR WATER

SPECIAL FIRE FIGHTING PROCEDURES: This product contains an oxidizer. DO NOT enter any enclosed or confined fire space without proper protective equipment such as self-contained breathing apparatus. Product decomposes with liberation of heat and oxygen which may intensify fire in combustible surroundings.

## UNUSUAL FIRE AND EXPLOSION:

Material is an oxidizer.

May ignite combustible materials and may produce noxious gases.

Products of combustion are toxic.

Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Use adequate explosion-proof ventilation system to control dust at the source. Avoid generating product dust near sources of ignition, including static electricity. Use safety measures in accordance with the 1988 edition of NFPA 654 (Standard for prevention of dust explosions in the Chemical, Dye, Pharmaceutical and Plastic Industries).

## SECTION V - HEALTH INFORMATION

THRESHOLD LIMIT VALUE: Estimated TWA in 8 hours at 5mg/m(3).

EFFECTS OF OVEREXPOSURE: (Listed by primary routes of entry)

Eyes: Extremely irritating. Direct eye contact may cause irreversible eye damage, including blindness. Corrosive to unwashed eyes. Washing with water shortly after exposure may significantly decrease irritation.

Skin: Minimally irritating. Not a skin sensitizer. Toxic effects from short exposures by skin contact may include non-specific effect such as weight loss and irritation.

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## POWDERED OXYGEN CLEANER

Inhalation: Causes severe irritation of the nasal passages and lungs, that usually subsides after exposure ceases.

Ingestion: Slightly hazardous to adults. May be fatal to small children. May be irritating to gums, mucous membranes and other structures of the oral cavity. The same hazards for inhalation and skin contact apply to ingestion.

**OTHER EFFECTS OF OVER EXPOSURE: (TO PHYSICIAN)** May be irritating to eyes and mucous membranes. Endoscopy to access possible corrosive effects to the esophagus may be indicated. Decomposition products may include peroxide (irritant) and borate. Systemic effects are unlikely, but would be those of boric acid for which treatment is symptomatic and includes decontamination, support of circulation, correction of fluid electrolyte disturbances, control of convulsions and protection of kidneys if large borate loads are encountered.

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

### EMERGENCY FIRST AID PROCEDURES:

**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart to ensure flushing of entire eye surface. DO NOT rub eyes. Get medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Wash with soap and water until skin is free of alkali, as indicated by disappearance of soapiness. If irritation persists get medical attention. Wash clothing and footwear before reuse.

**EMERGENCY FIRST AID CALL:** 1-303-623-5716 COLLECT

**INHALATION:** Remove to fresh air. Get medical attention.

**INGESTION:** DO NOT INDUCE VOMITING. If swallowed, immediately give 3-4 glasses of water. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

THIS MATERIAL IS A SENSITIZER TO THE SKIN. IT CAN PRODUCE ACUTE REACTIONS IN BOTH SKIN, EYE, AND INHALATION EXPOSURE.

## SECTION VI - REACTIVITY DATA

**STABILITY:** Stable under normal conditions

**CONDITIONS TO AVOID:** Avoid heat, reducing agents, moisture, heavy metal, salts & combustible organic materials.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Avoid Strong acids and alkalis, high storage temperatures, moisture and readily oxidizable material.

**HAZARDOUS DECOMPOSITION MATERIALS:** Hydrogen peroxide, oxygen which supports combustion. Decomposition can occur gradually, releasing controlled amounts of oxygen; not considered hazardous under foreseeable circumstances.

**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION VII - SPILL/LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

**DANGER!** Oxidizing and corrosive material. Dust explosion hazard. DO NOT get in eyes or on skin. DO NOT breath dust. For spills, wear appropriate protective gear and respiratory protection. Where dust may be generated, wear full face respirator protection and remove all sources of ignition. For large spills, or when spilled material comes in contact with water, SCBA is preferred. Carefully sweep up spilled material (avoid generating dust) and place in an appropriate container for disposal. Do not contaminate with oxidizable materials. Neutralize any residue with dilute, alkaline sodium bisulfite or thiosulfate solution; absorb with sand or vermiculite and place in a compatible container for disposal. If spilled material is wet, neutralize and proceed as stated above. This material is not harmful to aquatic life when used in the manner intended and disposed of through a sewage treatment system. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an SPDES permit.

**AQUATIC TOXICITY:** This product is slightly toxic/96hr LC(50) = 150-1,500 mg.

**RCRA:** If disposed of as shipped this material is a RCRA ignitable waste having a waste ID No. D001 (40 CFR 262.21).

## SECTION VIII - SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Wear NOISH/MSHA approved dust mask if 15mg/m(3) limitation is exceeded.

**LOCAL EXHAUST:** Work in well ventilated area or local exhaust ventilation where excessive airborne dust is expected.

**PROTECTIVE GLOVES AND CLOTHING:** Wear general purpose non-absorbent gloves. Wear clothing designed to minimize exposure.

**EYE PROTECTION:** Chemical type goggles and face mask should be worn whenever airborne dust is expected.

**OTHER PROTECTIVE EQUIPMENT:** As determined by or recommended by federal state or local regulations.

## SECTION IX – ADDITIONAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN:**

Do not breath dust. Avoid generating dust. Store in a cool, dry place, isolated from all organic material. Product is a strong oxidizer and is corrosive. Avoid heat and direct sunlight. Do not allow product to come in contact with oxidizable material. Keep container closed.

**SAFETY PRECAUTIONS:** Avoid breathing dust. Avoid contact with skin. Wash thoroughly after handling, before eating, before drinking, before smoking and before using toilet facilities. Safety shower, eye bath and washing facilities should be available when handling large quantities.

SECTION X - D.O.T. SHIPPING INFORMATION

Proper Shipping Name:	Oxidizer Material N.O.S.
Hazard Class:	Oxidizer
ID Number:	UN1479
Label Requirements:	Oxidizer
Reportable Quantity:	None

SECTION X I - REGULATORY

Sodium Percarbonate is listed with the State of New Jersey.

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Van-Tech Industries makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

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