





# MATERIAL SAFETY DATA SHEET OPTISOLV® OP7168



# SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name

**OPTISOLV OP7168** 

Manufacturer

**Kyzen Corporation** 

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Nashville, TN 37211

Information Phone

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**EMERGENCY PHONE (24 HOURS)** 

CHEMTREC

(800) 424-9300

Effective Date

January 31, 2003

Supersedes Date

August 21, 2001

# SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Component

Potassium Hydroxide

CAS Number 1310-58-3 OSHA PEL 2 mg/m³ ceiling ACGIH TLV 2 mg/m³ ceiling Approx. % by Wt.

1-10

No other ingredients identified by OSHA as hazardous are known to be present, or the ingredients present are below levels specified as hazardous by OSHA (29 CFR 1910.1200).

See Section 8 for exposure guidelines.

# **SECTION 3: HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

# High alkaline liquid. Irritating to the eyes, skin and mucous membranes.

Routes of Entry:

Inhalation: Yes

Skin Contact: Yes

Skin Absorption: Yes

Ingestion: Yes

Potential Health Effects:

Irritating to eyes, skin and respiratory system. May cause burns. Excessive exposure to vapor may cause dizziness, drunkenness, blurred vision, nausea, vomiting, headaches, irritation of the nose,

mouth, throat and lungs, and possible burns to the respiratory tract. Harmful if ingested.

Chemical ingredients listed as a carcinogen or potential carcinogen:

National Toxicology Program:

None

IARC Monographs:

None

OSHA Regulated:

None

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## **SECTION 4: FIRST AID MEASURES**

Emergency and First Aid Procedures for Overexposure:

Eye Contact: Immediately flush with water for 15 minutes while lifting eyelids and rolling eyes. Get immediate

medical attention.

Skin Contact: Wash promptly with soap and water. May dry out skin. Get medical attention if irritation occurs.

Remove contaminated clothing. Launder clothing before reuse.

Inhalation: Remove person to fresh air. If necessary, restore and support breathing. If breathing is difficult,

oxygen should be given. Get medical attention.

Ingestion: Get immediate medical attention. If conscious and medical help is not readily available, give 1 to 2

glasses of water and keep at rest. Never attempt to give anything by mouth to an unconscious

person. Induce vomiting only at the advice of a physician.

#### **SECTION 5: FIRE FIGHTING MEASURES**

Flash Point: None to boiling.

Flammable Limits in Air: None established for product as whole.

General Hazard: Caustic liquid.

Fire Fighting: Firefighters should have eye protection and wear self-contained breathing apparatus. Use water

spray to cool containers exposed to fire.

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, water spray for dilution to non-flammable mixture.

Hazardous Decomposition Products:

Combustion produces unidentified organics, oxides of carbon, carbon dioxide and carbon

monoxide.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel to a source of ignition and flash back.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Material Release or Spill: Pick up spill on sand, earth or other non-combustible, absorbent material. Flush or wipe area with

water to remove last traces. Collect wash water/material for disposal. Wear all appropriate

personal protective equipment.

## **SECTION 7: HANDLING AND STORAGE**

Handling and Storage: Store in cool, dry, well ventilated location away from incompatible materials. Do not store in open,

unlabeled or mislabeled containers. Separate from exidizers. Keep containers tightly closed. Avoid contact with skin, eyes and clothing. Avoid breathing mists and vapors. Avoid prolonged and repeated exposure. Use appropriate personal protective equipment. Do not wear contact

lenses when working with this material. Do not smoke, eat or drink in handling areas.

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# SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection:

Under normal ventilated use conditions, personal respiratory protection is typically not required. If misting or vapors occur, use NIOSH approved organic vapor air purifying respirator. Use impervious chemical gloves. Long sleeves, aprons, or other protective clothing is suggested to avoid skin exposure. Use chemical safety goggles, face shield or safety glasses for eye protection. Do not wear contact lenses when working with this material. Have eye wash and safety shower readily available.

Workplace Exposure Guidelines: Avoid direct contact with this material. General ventilation and local exhaust are required to minimize or eliminate exposure to mists and vapors. Do not eat, drink, or smoke when working with

this material.

Note:

Personal protection information given is based upon the general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert

assistance of an industrial hygienist or other qualified professional be sought.

Exposure Guidelines: Not established for product as whole.

**Exposure Guidelines for Individual Components:** 

Potassium hydroxide, OSHA PEL 2 mg/m³ ceiling, ACIGH TLV 2 mg/m³ ceiling.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

Clear amber

Odor

Mild

**Boiling Point** 

100-104°C

Solubility in Water

Complete

Specific Gravity

1.07-1.09

На

>13 (100%) 12.0-13.2 (5%)

Volatile Organic Compounds (VOC), EPA Method 24: 161 g/L (100%)

16.1 g/L (10%)

#### **SECTION 10: STABILITY AND REACTIVITY**

Stability:

Stable

Hazardous Polymerization:

Will not occur

Incompatible Materials:

Oxidizers, strong acids

Conditions to Avoid:

Heat, sparks, flame or other sources of ignition.

Hazardous Decomposition Products:

Combustion produces unidentified organics, oxides of carbon, carbon dioxide, and carbon

monoxide.

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# **SECTION 11: TOXICOLOGICAL INFORMATION**

No information exists for product as whole.

Health Hazards (Acute, Subchronic and Chronic): Proprietary alcohol: Oral: Animal feeding studies at relatively high levels have demonstrated systemic toxicity in males with no reproductive effects noted in females. Dermal: Animal studies of this material have shown no effects at typical (short-term) exposure levels. These studies have shown that repeated, cumulative, high level dermal contact may cause decreased male fertility with no reproductive effects noted in females. Inhalation: Animal studies of this material have shown prolonged and repeated inhalation of saturation concentrations of alcohol showed weight loss and lowered sperm production in male rats, with no significant weight loss and no reproductive effects noted in female rats at any level. These same studies showed at moderately high levels, spasms and drunkenness-like symptoms were noted.

> Potassium hydroxide: (CAS# 1310-58-3): Draize test, rabbit, skin: 50 mg/24H Severe: Oral, rat: LD50 = 273 mg/kg.

## **SECTION 12: ECOLOGICAL INFORMATION**

No information exists for product as whole.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal of Material:

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Empty containers must be handled with care due to product residue. This material is not an EPA hazardous waste.

# **SECTION 14: TRANSPORT INFORMATION**

D.O.T. Shipping Name

Compounds, Cleaning Liquid

D.O.T. Label: Non-hazardous, Non-flammable.

#### **SECTION 15: REGULATORY INFORMATION**

TSCA Status:

All ingredients used in OPTISOLV® OP7168 are listed.

SARA Title III Status:

The ingredients in this product have been reviewed according to the EPA Hazard Categories promulgated under Sections 302, 311, 312 and 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA

Title III). Listed below are the ingredients required to be reported under these specific sections:

Section 302:

None

Section 311/312:

None

Section 313:

None

#### **SECTION 16: OTHER INFORMATION**

NFPA Rating:

H=2, F=1, R=0

Supersedes Date:

August 21, 2001

Effective Date:

January 31, 2003

Sections Revised:

Prepared By:

Kyzen Health & Safety

2,3,8,9,11

This Material Safety Data Sheet adheres to ANSI standard ANSI Z400.1-1993.

The data contained herein is based on information currently available to Kyzen Corporation and is believed to be factual. As a formulator, blender, and compounder, Kyzen Corporation does not manufacture the raw materials used in this product and correspondingly relies on information provided to Kyzen Corporation from material safety data sheets on the specific raw materials in the construction of this material safety data sheet. Such information is to the best of Kyzen Corporation's knowledge and belief to be accurate and reliable as of the date of this MSDS. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY, OR COMPLETENESS. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular application. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage Other factors may involve other or additional safety or performance considerations. This data is not to be taken as a warranty or representation of which Kyzen Corporation assumes legal responsibility.

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