

# O · P · I P · R · O · D · U · C · T · S

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

**Product Name:** MicroBond Brush Cleaner

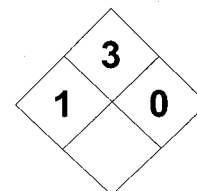
**Date Prepared:** 10/01/93

**Date Revised:** 8/11/98

**Name of Preparer:** Sunil Sirdesai

**POISON CONTROL CENTER**  
CHEMTREC  
1-800-424-9300

HEALTH = 1  
FLAMMABILITY = 3  
REACTIVITY = 0



### SECTION II - HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Exposure Limits	
		ACGIH TLV	OSHA PEL
Acetone	67-64-1	750 ppm	1000 ppm
Denatured Ethanol Mixture (Contains methanol, and methyl isobutyl ketone, Ethyl acetate as denaturants)		1000 ppm	1000 ppm
Ethanol	64-17-5	1000 ppm	1000 ppm
Methanol	67-56-1	200 ppm	200 ppm
Methyl isobutyl ketone	108-10-1	50 ppm	50 ppm
Ethyl acetate	141-78-6	400 ppm	400 ppm

0 = MINIMAL,  
1=SLIGHT,  
2=MODERATE,  
3=SERIOUS,  
4=SEVERE

### SECTION III - REACTIVITY DATA

**Stability:** Stable

**Incompatibility:** Oxidizing agents

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Heat - Brush cleaner is a highly flammable material. Oxidation and deficiency of air can produce carbon monoxide.

### SECTION IV - HEALTH HAZARD INFORMATION

#### Symptoms of Overexposure:

**Inhaled:** Irritation of mucous membranes, headache, nausea, dizziness and narcosis can result from excessive exposure to vapors.

**Contact with Skin or Eyes:** Eye irritation is irritation and may be damaging.

**Absorbed Through Skin:** Not expected to cause systemic injury.

**Swallowed:** Mucous membrane and gastrointestinal irritation.

#### Health Effects from Overexposure:

**Accute:** Oral, dog: LD=24 g/kg; Dermal, rabbit:LD=20 gm/kg; Human TClo: 500 ppm TFX:EYE

**Chronic:** None known

#### First Aid - Emergency Procedures:

**Eye Contact:** Flush eyes promptly with large amounts of water, occasionally lifting the upper and lower lids. Get medical attention immediately.

**Skin Contact:** Promptly wash contaminated skin with soap or mild detergent and water. Get medical attention if irritation persists.

**Inhaled:** Remove to fresh air. Restore and/or support breathing if required. If effects are more severe than a headache, contact a physician.

**Swallowed:** Give water to dilute. Induce vomiting and contact a physician.

**IN ALL OF THE ABOVE EMERGENCY CASES, CALL A PHYSICIAN.**

**Suspected Cancer Agent:** No

**Medical Conditions Aggravated by Exposure:** None Known.

This products ingredients are not found in the following lists:

OSHA, NTP, IARC.

**O · P · I**  
OPI PRODUCTS INC.

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ADDITIONAL INFORMATION CONTINUED ON THE OTHER SIDE

# MATERIAL SAFETY DATA SHEET

**Product Name:** MicroBond Brush Cleaner

## SECTION V - SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spill Reponse Procedures:** Provide maximum explosion proof ventilation. Eliminate all sources of ignition. Flush with water spray to clear area of brush cleaner (flush to open ground, NOT to drains, sewers, or surface water courses), or dilute with water and pick up with non-sparking tools for disposal.

**Preparing Wastes for Disposal:** Incineration is a recommended method to dispose of scrap brush cleaner. When amounts warrant it, consider reclaiming by distillation. **Note:** Dispose of wastes in accordance with Federal, State, and Local Regulations.

## SECTION VI - SPECIAL HANDLING INFORMATION

**Ventilation and Engineering Controls:** To meet TLV requirements

**Respiratory Protection:** For non-routine or emergency exposure above the TLV, use NIOSH or OSHA approved full facepiece gas mask with organic vapor canister, or air-supplied respirator in accordance with conditions.

**Eye Protection:** Safety Glasses      **Gloves:** Polyvinyl acetate gloves

**Other handling and storage requirements:** Store in a cool, clean, well-ventilated fireproof storage room or cabinet to meet OSHA requirements. Sprinkler fire protection is needed in areas of storage, handling, and use. Store in drums or safety cans with identifying labels which indicate the flammability of the material. Brush cleaner must be stored and handled away from heat. No smoking in storage or use areas. Prevent container damage. Electrically interconnect and ground containers for all transfers of brush cleaner to avoid fires from static sparks. An eyewash station and safety shower should be available near the workplace where splashing is possible.

## SECTION VII - PHYSICAL PROPERTIES

**Vapor Density (air=1):** 2.0

**Specific Gravity:** 0.835

**Solubility in Water:** Complete

**Vapor Pressure, mmHg at 20 Degrees C:** 266

**Melting Point (Degrees Fahrenheit):** -169

**Boiling Point (Degrees Fahrenheit):** 133

**Evaporation Rate (Butyl Acetate=1):** 14.48

**Appearance and Odor:** Clear, colorless liquid; fragrant mint-like odor

## SECTION VIII - FIRE AND EXPLOSION

**Flash Point (Fahrenheit) and Method:** 1.4 (Tag closed cup)

**Flammable Limits in Air, Volume %:** Lower: 2.6; Upper: 12.8

**Fire Extinguishing Materials:** Foam, Carbon Dioxide, Dry Chemical

## SECTION IX - USERS RESPONSIBILITY

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be determined if, or where, precautions, in addition to those described herein should be passed on to your customers or employees, as the case may be. OPI Products Inc. must rely on the user to utilize the information we have supplied to develop work practice guidelines and employee instructional programs for the individual operation and regulations.

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