

MATERIAL SAFETY DATA SHEET

OSM, INC.

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OSM HAND SANITIZER

SECTION 1: PRODUCT INFORMATION

PRODUCT NAME: OSM Hand Sanitizer

Chemical Name: Formulation

Common Name:

Formula Name: Mixture

Molecular Weight: N/A

	HMIS	NFPA
Health	1	1
Flammability	1	1
Physical Hazards	0	0
HMIS PPE	B	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<i>INCI Name:</i>	<i>CAS#EINECS#</i>	<i>Weight %</i>
<i>Benzalkonium Chloride</i>	<i>8001-54-5/263-080-8</i>	<i>0.10</i>
<i>Water</i>	<i>7732-18-5/231-791-2</i>	
<i>Dihydroxypropyl PEG-5</i>		
<i>Linoleammonium Chloride</i>	<i>168677-75-6/NLP</i>	
<i>Glycereth-2 Cocoate</i>	<i>68201-46-7/NLP</i>	
<i>Behentrimonium Chloride</i>	<i>17301-53-0/241-327-0</i>	
<i>Dihydroxyethyl cocamine Oxide</i>	<i>61791-47-7/263-180-1</i>	

(Note: See Section 8 of this MSDS for Exposure Guidelines)

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear colorless to light amber solution with mild odor.

Repeated/prolonged contact may cause eye and skin irritation. Inhalation may cause mucous membrane irritation.

Ingestion may cause gastrointestinal discomfort including irritation, nausea and diarrhea.

This product is not combustible.

Use extinguishing media suitable of the materials that are burning.

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Eye contact; Skin Contact; Inhalation, Ingestion

SYMPTOMS OF EXPOSURE

Eye Contact: Direct contact can cause pain and irritation

Skin Contact: Short periods of contact are not usually associated with skin irritation. Repeated direct contact can result in moderate irritation. Prolonged contact can result in moderate skin irritation.

Inhalation: Direct contact or exposure to high concentration of mists or vapors may cause irritation.

Ingestion: Direct contact or exposure may cause irritation. Ingestion of large amounts may cause gastrointestinal discomfort including irritation, nausea and diarrhea.

Chronic effects: No adverse effects are expected.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None Known

REPORTED A CARCINOGEN OR POTENTIAL CARCINOGEN

Not Applicable

OSHA

National Toxicology Program (NTP)
Cancer (IARC)

International Agency for Research on

SECTION 4: FIRST AID PROCEDURES

EYE CONTACT

Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

SKIN CONTACT

Wash affected areas with plenty of water and soap if available, for several minutes. Seek medical attention if irritation develops or persists.

INHALATION

Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

INGESTION

Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point and Method: >200°F (PMCC)

GENERAL HAZARD

This product is not combustible.

EXTINGUISHING MEDIA

Use media suitable for the material that is burning.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side.

FIRE FIGHTING EQUIPMENT

As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill area will be slippery. Wear appropriate protective equipment (See Section 8). Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread.

Prevent liquid from entering sewers or waterways.

SECTION 7: STORAGE AND HANDLING

HANDLING

Wear appropriate protective equipment (See Section 8).

STORAGE

Keep container tightly closed. Keep away from heat, and sunlight. Storage temperature range: 5-30°C. If material freezes, gently thaw prior to use. Mild agitation may be required.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS

In applications where the product will be exposed to elevated temperatures, use local ventilation to remove potential decomposition products.

PERSONAL PROTECTION FOR BULK HANDLING

Respirator: In operations where mists are generated wear a NIOS/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Eye protection: Wear safety glasses with side shields or goggles.

Gloves: Wear natural rubber gloves.

Clothing: Normal working clothing is generally adequate.

Other: Eye wash; safety shower.

EXPOSURE LIMITS

No limits established for this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

State	Liquid solution
Viscosity	Low viscosity
Color	Water white to straw
Odor	Mild
Melting Point °C	NA
Freezing Point °C	ND
Boiling Point °C	100 °C
Weight per Gallon	8.3 lb/gal
Specific Gravity @ 20°C	1.00+- 0.00
Water Solubility	Soluble
pH	5.5-7.0

SECTION 10: STABILITY AND REACTIVITY DATA

REACTIVITY

Stable

INCOMPATIBILITIES

None Known

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of Carbon and Nitrogen on combustion.

CONDITIONS TO AVOID

Avoid contact with heat.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY

No toxicity information is available for this specific material. The toxicity information provided is for components of this material and for closely related material.

ACUTE

For Benzalkonium chloride:

- Oral LD50 (rat): 295 mg/kg
- Dermal LD50 (rabbit): 3000 mg/kg
- Eye irritation (rabbit): Mild to moderate irritant (<1% active)
- Skin irritation (rabbit): Severe irritant
- Skin corrosivity (rabbit –DOT method): Corrosive
- Skin sensitization (guinea pig-Magnusson-Kilgman Maximization): Not a sensitizer

GENOTOXICITY/MUTAGENICITY

For Benzalkonium chloride:

- Ames test (Salmonella sp.): Not mutagenic with or without metabolic activation.

SECTION 12: ECOLOGICAL INFORMATION

Ec50 (Bacterium toxicity)	No Data
LC50 (Daphnia)	No Data
BOD	No Data
COD	No Data
Heavy Metals	No Data

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA Waste Code:	Not regulated under RCRA, 40 CFR 261
Products:	Keep away from natural water sources. Observe all applicable federal, state, and local regulations.
Empty packaging:	Remove all residue when emptying.

SECTION 14: TRANSPORTATION INFORMATION

DOT Hazard Classification: Non-Hazardous, not regulated

SECTION 15: REGULATORY INFORMATION

(Not meant to be all-inclusive, selected regulation represented)

OSHA HAZARD COMMUNICATION STANDARD (26 CFR 1910.1200)

Hazardous Non-Hazardous

CERCLA/SUPERFUND (40 CFR 117, 302)

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

SARA HAZARD CATEGORIES (40 CFR 370)

Acute Chronic Fire Pressure
 Reactive None

SARA TOXIC SUBSTANCES (40 CFR 372)

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

TOXIC SUBSTANCES CONTROL ACT

For FDA/COSMETIC Use Only.

STATE REGULATIONS

None listed

SECTION 16: OTHER INFORMATION

ABBREVIATIONS

C: Ceiling limit	N/A Not Applicable
N/E: Not established	N/K: Not Known
TPQ: Threshold Planning Quantity	N/D: Not Determined
RQ: Reportable Quantity	

THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESSED OR IMPLIED WARRANTY. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO TAKE APPROPRIATE PRECAUTIONS.

For additional information call (508) 823-1117