



1 – PRODUCT INFORMATION

Product name: Gumwand Solution

2 - COMPOSITION / INFORMATION ON INGREDIENTS

Naturally derived surfactant mixture. Cas# NA Mixture
Non-hazardous and/or present at amounts below reportable limits.

Health:	1
Flammability:	0
Reactivity:	0
NFPA Rating Health:	1
Flammability:	0
Reactivity:	0

3 - HAZARDS IDENTIFICATION

Emergency overview:

See below for product details

Acute health effects:

Ingestion may cause irritation of gastrointestinal tract. Causes eye and skin irritation. Inhalation may cause irritation of the respiratory tract and mucous membranes.

Chronic health effects:

None known.

Signs/Symptoms of exposure:

Irritation

Routes of exposure/entry:

Skin Contact, Inhalation, Ingestion, and Eye Contact

4 - FIRST AID MEASURES

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area:

See a physician/get immediate medical attention.

Eye contact:

Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If irritation persists, call a physician.

Skin contact:

Wash the affected area thoroughly with plenty of water and soap. If irritation develops, call a physician.

Inhalation:

If affected, remove to fresh air. Material Safety Data Sheet

Ingestion:

Rinse out mouth and have patient drink several glasses of water.

Call a physician.

Notes to physician:

No Additional Information



5 - FIRE FIGHTING MEASURES

NFPA flammability class:	N/A
Flash point:	Not Applicable
Explosive range:	No decomposition if stored and handled correctly; no explosion hazard
Fire and explosive properties:	Product is not flammable
Extinguishing media:	Carbon dioxide, water, water spray, foam or dry powder
Fire fighting instructions:	Wear self-contained breathing apparatus and protective gear in fire area

6 - ACCIDENTAL RELEASE MEASURES

Containment techniques:	Contain spill. If spilled in an enclosed area, ventilate.
Clean-up techniques:	Clean-up personnel should wear full protective clothing with goggles and gloves. Avoid contact with eyes.
Environmental precaution:	See Section 8

7 - HANDLING AND STORAGE

Ventilation required:	None
Handling:	No special measures necessary provided product is used correctly
Storage:	Protect from freezing Material Safety Data Sheet

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective gloves:	Required
Eye protection:	Required
Respiratory protection:	None expected
Other protective clothing/equipment:	None expected

9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	NA
pH:	11.5-12.5
Solubility in water:	Fully miscible
Appearance and odor:	Light yellowish or translucent liquid
Boiling point:	>100 deg.C
Melting point:	8 deg.C
Flammability limits in air by volume:	NA
Flash point:	NA
Auto ignition:	NA
Oxidizing properties:	NA
Specific gravity:	1.03-1.04
Evaporation rate (in butyl acetate):	NA



10 - STABILITY AND REACTIVITY

Peroxide, Pyrophoric, Unstable or Water Reactive:	NA
Reactivity and Hazardous Polymerization:	None Material Safety Data Sheet
Possible Hazardous Reactions:	None
Conditions to Avoid:	None
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide

11 - TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50> 2000 mg/kg (Rat)
Skin Irritation Patch Test:	Negative
Eye Irritation Test:	Low
Carcinogenicity:	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA
Neurotoxicity:	No information available
Mutagenicity:	No information available

12 - ECOLOGICAL INFORMATION

Possible Effects and Environmental Fate:	No data available
Degradability:	>70% COD reduction; COD 1210 mg. /g.
Aquatic Toxicity:	LC50 = 300 mg. /Liter (Carp, 24 hrs.) Material Safety Data Sheet

13 - DISPOSAL INFORMATION :

Methods of Disposal, Residues and Safe Handling:

Dispose of wastewater correctly. Dispose in accordance with local regulations by incineration at an approved waste disposal facility or to approved landfill

14 - TRANSPORTATION INFORMATION

Not regulated - See Bill of Lading for Details

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is made by Gumwand Ltd. As to the effects of such use, the results obtained, or the safety and toxicity of the product nor does Gumwand Ltd assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.