

THE LAB^o

Chemicals & Coatings

BIO-WASH

TECHNICAL AND MATERIAL SAFETY DATA SHEET

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SUPPLIER IDENTIFICATION AND INFORMATION

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THE RECOMMENDATIONS CONTAINED HERE-IN ARE BASED ON LABORATORY TESTS AND INFIELD USE EXPERIENCE AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED.

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Class: Alkaline mixture
EC Classification: C
R Phrases: R34
S Phrases: S2,16, 36/37/39, 53

Hazardous and/or other relevant Components	% (w/w)	CAS No.	E.C. No.
POTASSIUM HYDROXIDE	<5%	1310-58-3	215-181-3
SODIUM METASILICATE HYDRATE	<2%	6834-92-0	229-912-9
ETHYLENE GLYCOL MONOBUTYL ETHER	<5%	111-76-2	603-014-00-0

HAZARDS IDENTIFICATION

SAPMA Health Rating: Inhalation: 2 – MODERATE. Temporary or minor injury possible even if treatment is given. Excessive exposure corrosive to respiratory system.

Skin: Irritating, risk of dermatitis. Excessive exposure corrosive to skin.

Eyes: Highly irritating and risk of irreversible damage.

Ingestion: Harmful. May cause lung damage if swallowed.

- No carcinogenic, mutagenic or genetic effects established.
- May be harmful to aquatic organisms.
- May have short-term environmental effects. Contain, monitor and remove.

FIRST AID MEASURES

Inhalation: Move to fresh air. In case of discomfort seek medical attention.

Skin: Use hand cleaner/soap and water. Remove contaminated clothing.
In severe cases consult a doctor.

Eyes: Rinse immediately with plenty of water.
Seek medical advice if symptoms persist.

Ingestion: Wash mouth with plenty of water.
Do NOT induce vomiting.
Seek medical attention.

FIRE FIGHTING MEASURES

- In combustion emits toxic fumes.
- Containers can burst in a fire.
- Can form explosive vapour/air mixture.
- Use foam, CO₂, dry powder.
- Wear self-contained breathing apparatus.
- Do NOT use water jets.
- Cool containers in case of fire.

ACCIDENTAL RELEASE MEASURES

ALSO SEE: FIREFIGHTING MEASURES, EXPOSURE CONTROLS/PERSONAL PROTECTION & DISPOSAL INFORMATION

- Ensure sufficient ventilation.
- Contain and collect spillage with non-combustible absorbent material and dispose of according to local regulations.
- Do not allow product to enter drains and sewers.

HANDLING AND STORAGE

- Avoid the formation and spread of mists in the air.
- Avoid direct contact with the substance.
- Store separately from any reactive substances - oxidisers in particular.
- Keep away from ignition sources.
- Store in a well ventilated and dry environment.
- Store away from direct sun, heat and severe cold.
- STORAGE TEMPERATURE: 4 °C - 30 °C
- Product must only be kept in original packaging.
- Do not use aluminium or steel containers.

EXPOSURE CONTROLS/PERSONAL PROTECTION

NAME	CAS	OEL
POTASSIUM HYDROXIDE	1310-58-3	2 mg/m ³
SODIUM METASILICATE HYDRATE	6834-92-0	3 mg/m ³
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1200 mg/kg

SAPMA Rating: 2-H-E PPE - Respirator and eye protection.

Inhalation: In case of insufficient ventilation, use suitable respiratory protection.

Skin: AVOID CONTACT. Use barrier cream and impervious gloves.

Eyes: Use safety goggles. Avoid direct contact.

Ingestion: Observe the rules of hygiene. Wash before eating, drinking or smoking.



PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid N/A

Flash Point: 1.04 g/ml

Density: 10 seconds (F4C)

Solubility: Soluble in water

pH: 9.8

STABILITY AND REACTIVITY

General:	This product is stable and hazardous polymerisation will not occur.
Conditions to avoid:	Hot or cold storage.
Incompatible material:	Strong oxidisers, acids and sensitive metals e.g. aluminium.
Hazardous decomposition products:	Thermal decomposition (combustion) will produce carbon monoxide and dioxide.
Sensitivity to mechanical impact:	This product is not sensitive to mechanical impact.
Sensitivity to static discharge:	This product is not sensitive to static discharge.

TOXOLOGICAL INFORMATION

- No carcinogenic, mutagenic or genetic effects established.
- Toxicity levels not established.

ECOLOGICAL INFORMATION

- May cause undesirable effects to aquatic organisms.
- May have short-term environmental effects.
- Contain, monitor and remove.

DISPOSAL INFORMATION

RCRA 40 CFR 261 Classification:	None
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): (DSL) WHMIS CLASSIFICATION:	All ingredients are on the Domestic Substance List E - Corrosive material, D2B - Toxic

U.S. EPA WASTE NUMBER/DESCRIPTION: NONE

If this product is disposed of as shipped, it does not meet the criteria of a hazardous waste under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste under Subpart C, nor is it listed as a hazardous waste under Subpart D. As a non-hazardous liquid waste, it should be disposed of in accordance with all local, state or provincial and federal regulations. Consult state, provincial or local officials for the proper disposal method.

TRANSPORT INFORMATION

For Retail Use

Canadian WHMIS Classification:	Exempt
U.S.A OSHA (29 CFR 1910.1200):	Exempt
Canadian TDG Classification:	Ltd. Qty. (<1l)
U.S.A DOT (49 CFR 172.101):	Consumer Commodity ORM-D (<1l)

For Industrial (Commercial Use)

Canadian WHMIS Classification:	D2B
U.S.A OSHA (29 CFR 1910.1200):	Irritant
Canadian TDG and U.S.A DOT (49 CFR 172.101):	Corrosive liquid, N.O.S. (potassium hydroxide and disodium trioxosilicate mixture), Class 8, UN 1760, and P.G. II

REGULATORY INFORMATION

Classification: C, corrosive in concentrated form

R34: Causes burns.

S2: Keep out of reach of children.

S16: Keep away from sources of ignition - no smoking.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. Avoid

S53: exposure - obtain special instructions before use.

OTHER INFORMATION

- In case of discomfort always seek medical advice.
- All information is given in good faith but without guarantee in terms of accuracy.
- No responsibility is accepted for errors or omissions or the consequences thereof.

TECHNICAL DATA SHEET

Description: BIOWASH CLEAR

HEAVY DUTY WATERBASED DEGREASER GENERAL

Biowash is a versatile, highly concentrated degreaser for effective cleaning of almost any surface.

FORMULATION

Biowash is based on a balance of biodegradable, non-ionic and anionic surfactants, coupling agents, che-lating and soil suspending inorganics. Biowash contains a special sodium salt, which improves the products effectiveness over a wide range of applications as an anionic surfactant and as a powerful hydro-trope or solubilizer, especially because of its uniquely high solubility in aqueous solutions and its ability to be successfully blended with solvents like white spirits, or paraffin.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Clear liquid
Density	g/cm ²	1,060 - 1,100
pH		10.00 - 13.80
NVC	% m/m	22.0 - 27.0

PROPERTIES

- Biowash is highly concentrated and can be diluted up to 1:20.
- Due to the fact that Biowash contains non-caustic, it is safe to use.
- Biowash is water-based and can be safely used on all hard surfaces.
- Biowash has non-corrosive properties.
- The water-based nature of Biowash renders it non-flammable.
- Special soil suspending agents in the formulation of Biowash prevents the re-depositing of dirt and leaves a clean oil-free surface.
- Biowash has the unique ability to be mixed either with water or with solvents such as paraffin.

APPLICATION

Dilutions with water:

Biowash can be used as a floor cleaner by diluting it 1:20 with water for painted floors and 1:10 for concrete floors.

Directions:

1. Dilute product as described above depending on the degree of dirt, sometimes a 1:1 dilution may be re-quired.
2. Pour out a significant amount of the diluted mixture over the area to be degreased or cleaned.
3. If possible allow the product to penetrate and lift the dirt to reduce the need for agitation. If not possible the product can be agitated using a hard broom or any suitable material. After the entire are has been cleaned and thoroughly agitated, rinse with water using a high-pressure washer, hose pipe or bucket.
4. After ensuring that the floor has been thoroughly rinsed, allow the area to dry.

When Biowash is used through a steam-cleaner, the pre-dilution in the tank should be 1:20, whereas the final dilution at the end of the nozzle should be 1:200.

For heavy duty degreasing (engine cleaning etc.) use undiluted, then dilute Biowash 1:5 with water.

Directions:

1. Dilute the product as stipulated above and spray it on the area to be degreased using suitable spraying equipment or a steam cleaner. Avoid contact with electrical wires or electronic equipment.
2. Warm water can also be used to reduce the need for mechanical action. Rinse the degreased area with a high-pressure washer, hose pipe or bucket of water.

Dilutions of 1:50 can be used for light duty degreasing.
