

Safety Data Sheet

Section 1. Substance Identity and Company Contact Information

Product Name Kleenflow™ Basic Flow Analyzer Cleaning Solution **Product Part** A001252

Number(s)

Trade Name This product is proprietary material. Unit Size 1 L

Company EZkem, 1045 Cannon Drive, Hood River, OR 97031

Phone: 541-387-0343 Fax: 877-576-6791

Emergency No. 1-800-424-9300 (Chemtrec). Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

Section 2. Hazards Identification

Pictogram(s)

Signal Word Danger

Precautionary Statement(s)Corrosive. Cause burns. In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or you feel unwell, seek medical advice immediately (show the

label where possible).

Target Organ(s) No data available

Potential Health Effects Eve: Yes

Skin: Yes Ingestion: Yes Inhalation: Yes

Chronic Effects/IARC:Group 1 carcinogenCarcinogenicityNTP:Group 2 carcinogen

OSHA: Regulated carcinogen

Teratology (Birth Defects)

Information

No data available

Reproductive InformationNo data available

NFPA Ratings Health: 2

Flammability: 0
Reactivity: 0

Special Notice Key: No data available

HMIS Rating Health: 2

Flammability: 0
Reactivity: 0

Protective Equipment: Use goggles and protective gloves when handling.

Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Water	007732-18-5	90	No data available	No data available
Sodium Hydroxide	001310-73-2	4	2 mg/m ³	2 mg/m³
Ethyl alcohol (ethanol)	000064-17-5	5	1,000 ppm	1,000 ppm
Bromothymol blue	000076-59-5	1	No data available	No data available

Section 4. First Aid Measures

General AdviceNo data available

If Inhaled Remove to fresh air. Give oxygen, if necessary. Contact a physician.

In Case of Skin ContactFlush with copious amounts of water. Remove contaminated clothing. Contact a physician.In Case of Eye ContactFlush with copious amounts of water, lifting eyelids occasionally. Contact a physician.If SwallowedContact poison center immediately for recommended procedure. Contact a physician.

Indication of Any Immediate Medical Attention and Special Treatment Needed No special measures required.

Section 5. Fire-fighting Measures

General Information As in any fire, wear a self-contained breathing apparatus in pressure-demand,

MSHA/NIOSHA (approved or equivalent) and full-protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground

and collect in low or confined areas.

Suitable Extinguishing MediaCarbon dioxide, dry chemical powder, or spray

Special Hazards Arising from the

Substance or mixture

No data available

Advice for FirefightersNo data availableFlash PointNo data availableAutoignition TemperatureNo data availableFurther InformationNo data available

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency

Procedures

Wear appropriate personal protective equipment as specified in Section 8.

Environmental Precautions No data available

Methods and Materials for Containment and Cleaning

A leaking bottle, vial, or ampule may be place in a plastic bag, and normal disposal procedures followed. Take up spilled material with sand or other non-combustible absorbent material, and place in an appropriate container for later disposal. Flush

spill area with water.

Reference to Other Sections For disposal, see Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling Air sensitive.

Conditions for Safe S torage, Including any Incompatibilities

May be stored at room temperature. Keep in a tightly closed container, and store in a corrosion proof area.

Specific End Use(s)No data available

Section 8. Exposure Controls and Personal Protection

Components with Workplace Con-

trol Parameters

No information available

Appropriate Engineering

Controls

No data available

Eye/Face Protection Wear chemical goggles and face shield.

Skin Protection Wear chemical gloves.

Body ProtectionUse appropriate MSHA/NIOSH approved safety equipment. Wear chemical

resistant clothing such as a laboratory coat and/or a rubber apron, to prevent

contact with eyes, skin, and clothing.

Respiratory Protection Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves,

safety goggles, and other protective clothing.

Control of Environmental Ensure there is adequate ventilation to prevent airborne levels from exceeding

Exposure recommended exposure limits (see Section II).

Section 9. Physical and Chemical Properties

Appearance Form: Liquid; Color: Colorless

OdorNo data availableOdor ThresholdNo data available

pH 13.3 Melting Point/Freezing Point 0 $^{\circ}$ C Initial Boiling Point and Boiling Range 100 $^{\circ}$ C

Flash PointNo data availableEvaporation RateNo data availableFlammability (solid, gas)No data availableUpper/Lower Flammability or Explosive LimitsNo data availableVapor PressureNo data availableVapor DensityNo data availableRelative DensityNo data available

Water Solubility Soluble

Partition Coefficient : n-octanol/waterNo data availableAuto-ignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo data availableOxidizing PropertiesNo data availableOther Safety InformationNo data available

Section 10. Stability and Reactivity

Reactivity No data available

Chemical Stability Stable

 $\begin{array}{lll} \textbf{Possibility of Hazardous Reactions} & \textbf{No data available} \\ \textbf{Conditions to Avoid} & \textbf{Storage in open air.} \\ \textbf{Incompatible Materials} & \textbf{HCI, HF, HNO}_3, \textbf{H}_2 \textbf{SO}_4 \\ \end{array}$

Section 11. Toxicological Information

Routes of ExposureOn the skin: Irritant effect

On the eye: Irritant effect
Inhalation: Irritant effect
Ingestion: Irritant effect

Respiratory or Skin SensitizationNo information available

Signs and Symptoms of Overexposure May include burning sensation, coughing, wheezing, laryngitis, shortness

of breath, headache, nausea, and vomiting.

Toxicity Data Oral Rat 21,000 mg/kg LD₅₀

Section 12. Ecological Information

General Notes No information available

Section 13. Disposal Considerations

Product Recycle, if possible. Any material which cannot be saved for recovery or recycling

should be disposed of at an appropriate and approved waste disposal facility. Processing, use, and/or contamination of this product may change waste management requirements. Observe all applicable federal, state, and local environmental regulations

concerning disposal.

Contaminated Packaging Dispose according to official regulations.

Section 14. Transport Information

DOT Shipping Name Corrosive Liquid, Basic, Inorganic, N.O.S.

UN Proper Shipping Name (Sodium hydroxide solution)

DOT Hazard Class 8

Packing Group No data available

UN Number UN3266

Hazardous IngredientsSodium HydroxideDOT LabelNo data availableDOT PlacardNo data available

IMDG Shipping NameNo data available

UN Number UN3266

Class No data available
Packing Group No data available

IATA Shipping NameCorrosive Liquid, Basic, Inorganic, N.O.S.

Technical Shipping Name (Sodium Hydroxide Solution)

IATA Hazard Class 8

UN Number UN3266

Hazardous IngredientsSodium HydroxideIATA LabelNo data availableIATA PlacardNo data available

Section 15. Regulatory Information

OSHA Status The above item either does not contain any specifically hazardous material or the

potentially hazardous material is present in such low concentration that the item does not present any immediate threat to health and safety. This item does not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition

of a hazardous material.

All components of this solution are listed in the TSCA inventory. **TSCA Status**

CERCLA Reportable Quantity None reportable No data available **SARA Title III**

RCRA Status No

Not listed **California Proposition 65**

Chemical Weapons

Convention **TSCA 12 (b)**

Yes

No

SARA 311/312 Acute:

No Chronic: No

Fire: No Pressure: No Reactivity: No

Australian Hazchem Code None allocated **Poison Schedule** None allocated

WHMIS This SDS has been prepared according to the hazard criteria of the Controlled

Products Regulations (CPR) and the MSDS contains all of the information

required by the CPR.

Section 16. Other Information

Date Prepared: August 29, 2012

Revised: May 22, 2015

For R&D use only. Not for drug, household, or other uses.

