

# C.O.S.H.H. Safety Data Sheet # G2G-Universal

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CATALOG NO. G2G-Universal

## 1. PRODUCT NAME

G2G-UNIVERSAL

## 2. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO	OSHA PEL	ACIGH TLV	OTHER STEL	% or Range
Water	7732-18-5				60-80
Potassium hydroxide	1310-58-3	2 PPM	2 PPM		1-5
Sodium silicate	1344-09-8	Threshold limits not established			1-5
Metanil Yellow Dye	587-98-4	Threshold limits not established			0-1

## 3. HAZARDS IDENTIFICATION

### Inhalation:

Irritant. Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Pneumonitis may occur.

### Ingestion:

Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure.

### Skin Contact:

Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

### Eye Contact:

Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

### Chronic Exposure:

Prolonged contact with dilute solutions or mists may have a destructive effect on tissue.

### Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of this product.

## 4. FIRST AID

### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### Ingestion:

DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.

### Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### Note to Physician:

Perform endoscopy in all cases of suspected potassium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

## 5. FIREFIGHTING MEASURES

Not considered to be a fire hazard.

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### **Explosion:**

May cause fire and explosions when in contact with incompatible materials.

### **Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### **6. SPILL/ACCIDENTAL RELEASE MEASURES**

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of 15,000 pounds. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. Remove contaminated clothing immediately. Remove unnecessary personnel from the area of the spill.

### **7. HANDLING AND STORAGE**

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Store above 16C (60F) to prevent freezing. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do not store with aluminum or magnesium. Do not mix with acids or organic materials. Keep this and all chemicals out of the reach of children. Wash thoroughly after handling.

### **8. EXPOSURE CONTROLS /PERSONAL PROTECTION**

#### **Airborne Exposure Limits:**

- OSHA Permissible Exposure Limit (PEL): 15 mg/m<sup>3</sup> Ceiling (for concentrated material)
- ACGIH Threshold Limit Value (TLV): 15 mg/m<sup>3</sup> Ceiling (for concentrated material)

#### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

#### **Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

#### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

#### **Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities or a source of running water in the work area.

**Work Hygienic Practices:** Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. C.O.S.H.H.

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### 9. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >225°F Specific gravity (H<sub>2</sub>O = 1): 1.125

Vapor pressure (mm Hg): 17.5 @20°C Melting Point (Pour Point): <32°F

Vapor Density (Air = 1): Same as water Evaporation Rate (Water = 1): 1

Solubility in water: Water miscible pH @ 100%: >13

Appearance and odor: Clear orange liquid with a lavender odor.

### 10. STABILITY and REACTIVITY DATA

#### Stability:

Stable under ordinary conditions of use and storage.

#### Hazardous Decomposition Products:

Reaction with non-ferrous metals releases flammable and explosive hydrogen gas.

#### Hazardous Polymerization:

Will not occur.

#### Incompatibilities:

Potassium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may causes violent reactions. Contact with metals such as aluminum, magnesium, tin, and zinc cause may formation of flammable hydrogen gas.

#### Conditions to Avoid:

Heat, incompatibles.

### 11. TOXICOLOGY INFORMATION

Potassium hydroxide: 365 mg/kg oral-rat LD50. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis. Skin contact with this material may cause severe irritation and corrosion of tissue. Eye contact can cause severe irritation, corrosion with possible corneal damage and blindness. Ingestion may cause irritation, corrosion/ulceration, nausea, and vomiting. In general, chronic effects are due to long-term irritation. This material may cause dermatitis on the skin, or recurrent corneal ulceration and visual disturbances of vision. In rare cases reports have noted long-term inhalation causes bronchial inflammatory reaction or obstructive airway dysfunction.

### 12. ECOLOGICAL INFORMATION

**FISH TOXICITY:** This material has exhibited moderate toxicity to aquatic organisms.

#### FATE AND TRANSPORT:

**BIODEGRADATION:** This material is inorganic and not subject to biodegradation.

**PERSISTENCE:** This material is believed to persist in the environment.

**BIOCONCENTRATION:** This material is believed not to bioaccumulate.

**OTHER ECOLOGICAL INFORMATION:** This material has exhibited slight toxicity to terrestrial organisms.

### 13. DISPOSAL CONSIDERATIONS

Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### 14. TRANSPORTATION INFORMATION

**US DOT:** Corrosive liquid, basic, inorganic, n.o.s. (contains potassium hydroxide), 8, UN3266, PGII

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**International (Water, I.M.O.)**

**Proper Shipping Name:** Corrosive liquid, basic inorganic, n.o.s. (contains Potassium hydroxide)

**Hazard Class:** 8

**UN/NA:** UN3266

**Packing Group:** II

**15. REGULATORY INFORMATION**

**EC Classification:** 019-002-00-8(Potassium Hydroxide)

**Labeling –**

**-Risk phrases:**

R22: Harmful if swallowed.

R 34 Causes burns.

R 36 Irritating to eyes.

R 37 Irritating to respiratory system.

R 38 Irritating to skin.

**- Safety phrases**

S2: Keep out of reach of children

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

**US EPA**

**Comprehensive Environmental Response Compensation and Liability**

**Act of 1980** (CERCLA) requires notification of the National Response Center of release quantities of Hazardous Substances is not required for this material.

**Superfund Amendments and Reauthorization Act of 1986** (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (used for SARA 302, 304, 311, and 312) is not required for quantities below 250 pounds.

**Superfund Amendments and Reauthorization Act of 1986** (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This material is not subject to reporting requirements.

**Toxic Substances Control Act** (TSCA) Status: The ingredients of this product are on the TSCA Inventory.

**State Right to Know**

California Proposition 65: California SCAQMD Rule 443.1 (VOC's)

Massachusetts: Hazardous substances and extraordinarily hazardous substances must be identified.

Pennsylvania: Hazardous substances must be identified.

**Chemical Inventory Status**

Ingredient TSCA EC Japan Australia Korea DSL NDSL Phil.

Potassium Hydroxide (1310-58-3) Yes Yes Yes Yes Yes Yes No Yes

**Federal, State & International Regulations**

SARA 302 SARA 313 TSCA CERCLA 261.33 8(d)

Ingredient RQ TPQ Chemical RCRA List -

Potassium Hydroxide (1310-58-3) No No No 1000 No No

Chemical Weapons Convention: No

TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Mixture / Liquid)

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**Australian Hazchem Code:** 2R

**Poison Schedule:** Not scheduled

**WHMIS:**

This MSDS 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.

**16. OTHER INFORMATION:**

**NFPA Ratings:** Health: **3** Flammability: **0** Reactivity: **1**

**Label Hazard Warning:**

Caution –contains concentrated inhibited alkaline hydroxides. Avoid contact with eyes and skin. Use protective gloves, glasses and clothing when mixing or applying solution. Do not take internally.

**Label Precautions:**

Skin and eye protection should be worn when mixing and applying solutions of this product. Keep out of reach of children.

**Label First Aid:**

For accidental eye contact, flush with water and get medical attention. For skin contact, flush with water and apply soothing lotion.

**Product Use:**

Air condition and refrigeration coil cleaner

**17. ADDITIONAL INFORMATION:**

This information is provided in accordance with the requirements of the UK Health and Safety at Work Act 1974, and specifically in order to assist users of the product to make their 'assessment of health risks' as required by the UK Control of Substances Hazardous to Health Regulation 1988 (COSHH assessments). Provision of this information does not preclude users from seeking advice from other sources as indicated in the COSHH guides. This information is intended to cover potential hazards at the place of work and does not detail medical uses, indications, contra-indications and precautions for the treatment of patients.

**18. Manufacturer:**

Diversitech

6650 Sugarloaf Parkway, Suite 100

Duluth, GA 30097

Phone 1+678.542.3600

EMERGENCY Phone No. 1 800-255-3924 Chem-Tel (Chemical Emergencies Only)

**19. REFERENCE NUMBER:**                      **DATE OF ISSUE:**

COSHH Safety Data Sheet: G2G                      02/28/2006

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