

DALCAM 3000

SECTION 1. IDENTIFICATION

Product Identifier	DALCAM 3000
Other Means of Identification	0103DAL
Recommended Use	Cleaning product.
Restrictions on Use	For food plant and industrial use only.
Manufacturer/Supplier Identifier	Epsilon Chemicals Ltd., 1926-94 Street N.W., Edmonton, Alberta, T6N1J3, (780) 438-3040
Emergency Phone No.	CANUTEC, (613) 996-6666, 24/7
Date of Preparation	February 06, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 2; Eye irritation - Category 2

Label Elements

 Signal Word:
 Warning

Hazard Statement(s):

 Causes mild skin irritation.
 Causes serious eye irritation.

Precautionary Statement(s):
Prevention:

 Wash hands and skin thoroughly after handling.
 Wear gloves to minimize prolonged contact with skin.
 Wear safety glasses if splash hazard exists.

Response:

IF SWALLOWED: Rinse mouth. Induce vomiting. Give large quantities of water to drink.

Get immediate medical advice/attention.

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Get medical attention.

Storage:

Store locked up in a cool, well-ventilated place away from possible contaminants.

Keep container closed when not in use.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients. Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Potassium hydroxide	1310-58-3	3-5	Not applicable	
Sodium metasilicate	6834-92-0	1-5	Not applicable	

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Get medical attention.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Get medical attention.

Ingestion

Rinse mouth with water. Induce vomiting. Give plenty of water to drink. Get immediate medical attention.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: mist may cause irritation of the respiratory tract.

If on skin: brief exposures may cause irritation and defatting of skin.

If swallowed: causes burns to mouth and esophagus, nausea, vomiting, abdominal pain and diarrhea.

If in eyes: causes temporary discomfort and redness.

Immediate Medical Attention and Special Treatment

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, carbon dioxide, dry chemical powder.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; sodium oxides.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

Use full protective clothing. Use appropriate certified respirators when facing concentrations above the exposure limit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Use appropriate certified respirators when facing concentrations above exposure limit. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Dike spilled product to prevent runoff. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Flush spill area.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Do not swallow. Wear personal protective equipment to avoid direct contact with this chemical. Wash hands thoroughly after handling this material.

Do not breathe in this product. Only use where there is adequate ventilation. Avoid generating vapours or mists.

Avoid release to the environment. Keep containers tightly closed when not in use or empty.

Conditions for Safe Storage

Store in an area that is: cool, temperature-controlled, ventilated, separate from incompatible materials (see Section 10:

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Stability and Reactivity).
Store in a closed container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Potassium hydroxide		2 mg/m3	Not established	2 mg/m3

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value.
OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.
TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. C = Ceiling limit.

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Coveralls and rubber, vinyl or neoprene gloves should be worn.

Respiratory Protection

Not normally required if product is used as directed. Use approved respiratory protection if product is misted.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear green liquid.
Odour	Floral
Odour Threshold	Not available
pH	13.5
Melting Point/Freezing Point	Not available (melting); 0 °C (32 °F) (freezing)
Initial Boiling Point/Range	100 °C (212 °F)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.037
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Incompatible materials. Acidic conditions (low pH). High temperatures.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), acids.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; sodium oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

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Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Potassium hydroxide	Not available	273 mg/kg (rat)	> 1260 mg/kg (rabbit)
Sodium metasilicate		1280 mg/kg (rat)	

Skin Corrosion/Irritation

Brief exposures may cause irritation and defatting of skin.

Serious Eye Damage/Irritation

Causes temporary discomfort and redness upon contact with eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Mist may cause irritation of respiratory tract.

Ingestion

Symptoms may include nausea, vomiting, stomach cramps and diarrhea. Burning in mouth and esophagus.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Potassium hydroxide	Not evaluated	Not designated	Not Listed	Not Listed

Key to Abbreviations

IARC = International Agency for Research on Cancer. ACGIH® = American Conference of Governmental Industrial Hygienists. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

No information was located for: Aspiration Hazard, STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product should not be allowed to enter drains, water courses or the soil. This product and its container should be disposed of in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1814	Potassium hydroxide solution	8	II
US DOT	1814	Potassium hydroxide solution	8	II

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class D2B

D2B - Toxic

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

SECTION 16. OTHER INFORMATION

SDS Prepared By Technical Service Department, Epsilon Chemicals
Phone No. (780) 438-3040

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Revision Indicators Not applicable.
The following SDS content was changed on February 13, 2017:
Section 11 - Toxicological Information; LC50/LD50 values.

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

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