### SAFETY DATA SHEET

#### **ALUMA WARE**

#### **Section 1. Identification**

Product identifier : ALUMA WARE
Product code : 17-08260
Other means of : Not available.

identification

Product type : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

Industrial applications: Warewash detergent.

Only use this product as directed. Read label before using.

Supplier's details : Alpine Specialty Chemical Ltd.

9 City View drive, Etobicoke, Ontario

M9W 5A5

Emergency telephone number (with hours of

operation)

: 1-800-361-7691 (8am to 5pm Monday to Thursday) (8am to 4pm Friday)

#### Section 2. Hazard identification

Classification of the substance or mixture

: SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

#### **GHS** label elements

Hazard pictograms



Signal word : Danger

**Hazard statements** : H314 - Causes severe skin burns and eye damage.

**Precautionary statements** 

General : Not applicable.

Prevention : P280 - Wear protective gloves: < 1 hour (breakthrough time): Chemical-resistant,

impervious gloves. Wear protective clothing. Wear eye or face protection:

Recommended: splash goggles.

P264 - Wash thoroughly after handling.

Response : P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON

CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER

or doctor.

P363 - Wash contaminated clothing before reuse.

P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

**Storage**: Keep under supervision.

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### Section 2. Hazard identification

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

Ingredient name	% (w/w)	CAS number
potassium hydroxide	5 - 10	1310-58-3
Sodium lauryl sulfate	1 - 5	151-21-3

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

Inhalation

Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

Skin contact

: Rinse with water. Remove contaminated clothing and wash it before reuse. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

Ingestion

: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : May cause eye burn

**Inhalation**: Inhalation of vapors or mist may cause respiratory tract irritation.

Skin contact : May cause skin burns

**Ingestion**: May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

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### Section 4. First-aid measures

Ingestion

Adverse symptoms may include the following: stomach pains

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

No action should be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing them, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** media

: None known.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action should be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Eye/face protection** 

Continued or severe exposures might required to wear a face shield or chemical splash goggles. It is minimally suggested to wear safety glasses while using or handling this product.

**Hand protection** 

: It is suggested to wear chemical-reisitant gloves while using or handling this product.

**Body protection** 

: No special protective clothing is required.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

No specific protective equipment required under normal use conditions.

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### Section 6. Accidental release measures

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children. Store away from incompatible materials;

Reactive or incompatible with acids.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
potassium hydroxide	CA Alberta Provincial (Canada, 6/2018).  Skin sensitizer.  C: 2 mg/m³  CA British Columbia Provincial (Canada, 6/2022).  C: 2 mg/m³  CA Ontario Provincial (Canada, 6/2019).  Ceiling Limit: 2 mg/m³  CA Quebec Provincial (Canada, 6/2022).  STEV: 2 mg/m³ 15 minutes.

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### Section 8. Exposure controls/personal protection

CA Saskatchewan Provincial (Canada, 7/2013).

CEIL: 2 mg/m<sup>3</sup>

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing.

**Eye/face protection** : Continued or severe exposures might required to wear a face shield or chemical

splash goggles. It is minimally suggested to wear safety glasses while using or

handling this product.

**Skin protection** 

**Hand protection** : It is suggested to wear chemical-reisitant gloves while using or handling this product.

**Body protection** : No special protective clothing is required.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection**: No specific protective equipment required under normal use conditions.

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.

Color : Colorless.

Odor : Odorless.

Odor threshold : Not available.

**pH** : 14

Melting point/freezing point : Not available.

Boiling point, initial boiling : Not available.

point, and boiling range

Flash point : [Product does not sustain combustion.]

Evaporation rate: Not available.Flammability: Not available.Lower and upper explosion: Not available.

limit/flammability limit

Vapor pressure :

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### Section 9. Physical and chemical properties

	Vapo	Vapor Pressure at 20°C		Vapor pressure at 50		re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Sodium Salt of Tolyltriazole	25	3.3				
water	17.5	2.3				
tetrasodium ethylene diamine tetraacetate	0	0				

Relative vapor density

: Not available.

**Relative density** 

: 1.2

Solubility

: Easily soluble in the following materials: cold water and hot water.

Solubility in water

Partition coefficient: n-

: Not available.

octanol/water

: Not applicable.

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
Sodium Salt of Tolyltriazole	108	226.4	
tetrasodium ethylene diamine tetraacetate	>200	>392	
trisodium nitrilotriacetate	>200	>392	
sodium dodecyl sulphate	310.5	590.9	VDI 2263
sodium glucoheptonate	572	1061.6	EU A.15

**Decomposition temperature** 

: Not available.

Viscosity

: Not available.

Flow time (ISO 2431)

: Not available.

**Particle characteristics** 

Median particle size

: Not applicable.

### Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous reactions

: May cause an exothermic reaction in presence of acids.

**Conditions to avoid** 

: No specific data.

**Incompatible materials** 

: Reactive or incompatible with acids.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
potassium hydroxide Sodium lauryl sulfate	LD50 Oral LD50 Oral LD50 Oral	Rat Rat Rat	273 mg/kg 1288 mg/kg 1288 mg/kg	-

## Section 11. Toxicological information

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
potassium hydroxide	Eyes - Moderate irritant	Rabbit	-	24 hours 1	-
				mg	
	Skin - Severe irritant	Guinea pig	-	24 hours 50	-
				mg	
	Skin - Severe irritant	Human	-	24 hours 50	-
				mg	
	Skin - Severe irritant	Rabbit	-	24 hours 50	-
				mg	
Sodium lauryl sulfate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
		_		mg	
	Skin - Mild irritant	Dog	-	24 hours 25	-
	Obside NATI Libraria and			mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
	Olaina Milal innit and	11		mg	
	Skin - Mild irritant	Human	-	24 hours 0.06 %	-
	Skin - Mild irritant	Human		504 hours	
	Skiii - Willu II Italit	Tullian	-	0.3 %	-
	Skin - Mild irritant	Human		47 hours 0.5	_
	OKIII - WIIIG IITILAITE	liuman	_	%	-
	Skin - Mild irritant	Human	_	22 hours 10	_
	Okin Wild irritarit	Traman		%	
	Skin - Mild irritant	Human	_	2 hours 2 %	_
	Skin - Mild irritant	Human	-	18 hours 2 %	-
	Skin - Mild irritant	Pig	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Moderate irritant	Human	-	24 hours 0.1	-
				%	
	Skin - Moderate irritant	Human	-	48 hours 3 %	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

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### Section 11. Toxicological information

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

**Eye contact** : May cause eye burn

**Inhalation**: Inhalation of vapors or mist may cause respiratory tract irritation.

Skin contact : May cause skin burns

**Ingestion**: May cause burns to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate :

effects

: Not available.

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General: No known significant effects or critical hazards.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Reproductive toxicity: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/l)
potassium hydroxide	500	N/A	N/A	N/A	N/A
Sodium lauryl sulfate	1288	N/A	N/A	N/A	N/A

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### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
potassium hydroxide	Acute LC50 80 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
Sodium lauryl sulfate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 μg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 4.6 mg/l Fresh water	Fish	96 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Gambusia holbrooki	28 days

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Sodium lauryl sulfate	-2.03	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
TDG Classification	UN3266	UN 3266 Corrosive liquid, basic, inorganic, n.o.s (potassium hydroxide)	8	II	No.

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### **Section 14. Transport information**

#### **Additional information**

**TDG Classification** Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.40-2.42 (Class 8).

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

### Section 15. Regulatory information

#### **Canadian lists**

**Canadian NPRI** : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Canada : Not determined. **United States** : Not determined.

### Section 16. Other information

**History** 

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

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### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1	Expert judgment Expert judgment

References : Not available.

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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