

# **SAFETY DATA SHEET**

**ALUSTAR 300** 

Section 1. Identi	Section 1. Identification		
GHS product identifier	: ALUSTAR 300		
Product code	: 53-G 758 (208L), 53-G 757 (20L), 53-G 758 (1000L)		
SDS no.	: L-106E		
Product type	: Liquid.		
Relevant identified uses o	f the substance or mixture and uses advised against		
Identified uses	: Water-based alkaline cleaner/degreaser for non-ferrous alloys.		
Manufacturer	: Walter Surface Technologies Inc. Bio-Circle - A Division of Walter Surface Technologies Inc. 810 Day Hill Road Windsor, CT 06095 United States General Information: 1-866-592-5837 info.us@walter.com www.walter.com		
Emergency telephone number (with hours of operation)	: INFOTRAC <sup>®</sup> 1-800-535-5053. International call collect: 1-352-323-3500 24 hours/day, 7 days/week.		
Section 2. Hazar	ds identification		
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the substance or mixture	: SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1		
GHS label elements			
Hazard pictograms			
Signal word	: Danger		
Hazard statements	: H314 - Causes severe skin burns and eye damage.		
Precautionary statement	<u>s</u>		
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>		
Response	: P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.		

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

## Section 2. Hazards identification

	Immediately call a POISON CENTER or physician.
Storage	: P405 - Store locked up.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product code	: 53-G 758 (208L), 53-

: 53-G 758 (208L), 53-G 757	(20L), 53-G 758 (1000L)
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Ingredient name	%	CAS number
Alcohols, C10-16, ethoxylated propoxylated	≥5 - ≤10 ≥3 - ≤5 ≥1 - ≤3	6834-92-0 69227-22-1 28348-53-0

The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove 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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

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

Eye contact

: Causes serious eye damage.



## Section 4. First aid measures

No known significant effects or critical hazards.
Causes severe burns.
No known significant effects or critical hazards.
<u>ns</u>
Adverse symptoms may include the following: pain watering redness
No known significant effects or critical hazards.
Adverse symptoms may include the following: pain or irritation redness blistering may occur
Adverse symptoms may include the following: stomach pains
I attention and special treatment needed, if necessary
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
No specific treatment.
No action shall 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 it, 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	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
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, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall 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 in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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 co	ntainment 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

	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.

place in an appropriate waste disposal container. Dispose of via a licensed waste

## 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. 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. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Sodium metasilicate pentahydrate Alcohols, C10-16, ethoxylated pro Sodium cumenesulphonate	oxylated None. None. None.
Appropriate engineering controls	: No personal respiratory protective equipment normally required. Avoid breathing dust/ fume/gas/mist/vapors/spray. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection measure	res
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	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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	: Use a NIOSH/MSHA approved respirator if there is a risk of exposure at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.

## Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Transparent
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: 12 to 14.8
Melting point	: 0°C (32°F)



## **Section 9. Physical and chemical properties**

Boiling point	: 95°C (203°F)	
Flash point	: Not available.	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 1.08 to 1.11 g/ml @ 20°C (68°F)	
Solubility	: Soluble in the following materials: cold water and hot water.	
Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Not available.	
Flow time (ISO 2431)	: Not available.	
VOC content	: 0 % (w/w)	

## 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	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials and 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
Sodium metasilicate pentahydrate	LD50 Oral	Rat	847 mg/kg	-

### Irritation/Corrosion

There is no data available.

### Sensitization

There is no data available.

### **Mutagenicity**

There is no data available.

### **Carcinogenicity**



## Section 11. Toxicological information

There is no data available.

### **Reproductive toxicity**

There is no data available.

### **Teratogenicity**

There is no data available.

### Specific target organ toxicity (single exposure)

Name	Category	Target organs
Sodium metasilicate pentahydrate Sodium cumenesulphonate	0,	Respiratory tract irritation Respiratory tract irritation
Specific target organ toxicity (repeated exposure)		

There is no data available.

### Aspiration hazard

routes of exposure

There is no data available.

Information on the likely	: Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns.
Ingestion	: No known significant effects or critical hazards.

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

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains</li> </ul>

#### Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : No known significant effects or critical hazards. effects **Potential delayed effects** : No known significant effects or critical hazards. Long term exposure **Potential immediate** : No known significant effects or critical hazards. effects Potential delayed effects : No known significant effects or critical hazards. Potential chronic health effects General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards.



## Section 11. Toxicological information

Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

### Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	7493.4 mg/kg

## Section 12. Ecological information

### **Toxicity**

There is no data available.

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ALUSTAR 300	-	>90%; 28 to 100 day(s)	Readily

### **Bioaccumulative potential**

There is no data available.

**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 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 empty 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

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN3266	UN3266	UN3266
UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate pentahydrate)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate pentahydrate)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate pentahydrate)
Transport hazard class(es)	8 CORRORATE	8	8
Packing group	Ш	Ш	III
Environmental hazards	No.	No.	No.

**AERG** : 154

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. Protect from freezing. Freezing will damage product and render it unusable.

## Section 15. Regulatory information

 U.S. Federal regulations
 : United States inventory (TSCA 8b): All components are listed or exempted.

 Clean Water Act (CWA) 307: Benzene; Toluene; Ethylbenzene

 Clean Water Act (CWA) 311: Benzene; Toluene; Ethylbenzene; Formaldehyde;

 Propylene oxide

 Clean Air Act Section 112
 : Listed

(b) Hazardous Air Pollutants (HAPs)	
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

### SARA 302/304

**Composition/information on ingredients** 

		SARA 302 TPQ SARA 304 RQ		RQ	
Name	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Propylene oxide	Yes. Yes. Yes.	1000 10000 500	- 1444.3 -	10 100 100	- 14.4 -



ALUSTAR 300

## Section 15. Regulatory information

**SARA 304 RQ** 

: 544662.3 lbs / 247276.7 kg [59656.2 gal / 225823.5 L]

### SARA 311/312 Classification

## : SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

### **Composition/information on ingredients**

Name	Classification
Sodium metasilicate pentahydrate	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Alcohols, C10-16, ethoxylated propoxylated Sodium cumenesulphonate	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### **SARA 313**

There is no data available.

### State regulations

Ма	ssa	ach	us	etts
IIIC	330		us	Gus

**New Jersey** 

**Pennsylvania** 

- : None of the components are listed.
- **New York** : None of the components are listed.
  - : None of the components are listed.
  - : None of the components are listed.

### California Prop. 65

**WARNING**: This product can expose you to chemicals including Benzene, Ethylene oxide, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Ethylbenzene, Cumene, 1,4-Dioxane, Propylene oxide, Formaldehyde, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

### **International lists**

- **National inventory**
- Canada

: All components are listed or exempted.

### Section 16. Other information

Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method

### **History**

Date of issue mm/dd/yyyy	: 07/30/2018
Date of previous issue	: 11/30/2015
Version	: 2
Prepared by	: KMK Regulatory Services Inc.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named 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.