



0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Extreme

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ALUSTAR 200
Product Identifier 53-G 707 (20L), 53-G 708 (208L)
MSDS No. L-79E
Product Family STAR cleaners and degreasers for automated cleaning applications
Manufacturer / Supplier Walter Surface Technologies Inc., 5977 Trans-Canada Highway, Pointe-Claire, Qc, H9R 1C1
 1-888-592-5837, www.walter.com
Emergency Contact CANUTEC (Canadian Transport Emergency Centre), (613) 996-6666,
 24 hours / 7 days
Information Use Water-based alkaline cleaner/degreaser for non-ferrous alloys

2. HAZARDS IDENTIFICATION

WHMIS Classification



Class D2B

Class E

D2B - Toxic (Skin irritant; Eye irritant); E - Corrosive

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

Potential Health Effects

Route of Exposure Inhalation; skin contact; eye contact; ingestion.
Inhalation Harmful. Can irritate the nose and throat.
Skin Contact CORROSIVE, when CONCENTRATED. Repeated or prolonged contact can irritate or burn the skin.
Eye Contact CORROSIVE when CONCENTRATED. May irritate or burn the eyes.
Ingestion Harmful. Can burn the lips, tongue, throat and stomach.
Carcinogenicity Not a carcinogen.
Teratogenicity / Embryotoxicity Does not harm the unborn child.
Reproductive Toxicity Not a reproductive hazard.
Mutagenicity Not a mutagen.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Registry No.	Concentration %	Other Identifiers
Potassium hydroxide	1310-58-3	1 - 5	N/Av.
Sodium Metasilicate	6834-92-0	1 - 5	N/Av.
DL-Alanine, N,N-bis(carboxymethyl)-, trisodium	164462-16-2	1 - 5	N/Av.
1,2,4-Butanetricarboxylic acid, 2-phosphono-	37971-36-1	1 - 5	N/Av.

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Move victim to fresh air.
Skin Contact	Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. If irritation or pain persists, see a doctor.
Eye Contact	Quickly and gently blot or brush chemical off the face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If irritation or pain persists, see a doctor.
Ingestion	Have victim rinse mouth with water. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Give plenty of water to drink Call a Poison Centre or doctor if the victim feels unwell.

5. FIRE FIGHTING MEASURES

Flammable Properties	Does not burn.
Suitable Extinguishing Media	Not combustible. Use extinguishing agent suitable for surrounding fire.
Unsuitable Extinguishing Media	None known
Specific Hazards Arising from the Chemical	In a fire, the following hazardous materials may be generated: carbon monoxide & carbon dioxide.
Protective Equipment and Precautions for Firefighters	Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use the Personal Protective Equipment recommended in Section 8 of this MSDS. Slippery after spillage or leakage.
Environmental Precautions	It is good practice to prevent releases into the environment. Do not discharge into drains undiluted.
Methods for Containment and Clean-up	Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Contaminated absorbent poses the same hazard as the spilled product. Large spills or leaks: remove or recover liquid using pumps or vacuum equipment. Flush spill area. Dike and recover contaminated water for appropriate disposal. Review Section 13 (Disposal Considerations) of this MSDS.

7. HANDLING AND STORAGE

Handling	Only use where there is adequate ventilation. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty. Wear personal protective equipment to avoid direct contact with this chemical.
Storage	Store in an area that is: cool, dry well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in the original, labelled, shipping container. Protect

from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Mechanical ventilation is recommended for all indoor situations. Well designed and well-maintained ventilation systems remove vapours, fumes, mists from the workplace. If ventilation is insufficient, wear breathing apparatus protection. Provide eyewash and safety shower if contact or splash hazard exists.
Personal Protective Equipment (PPE)	
Eye/Face Protection	Wear chemical safety goggles or face shield when contact is possible.
Skin Protection	Avoid repeated or prolonged skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots. Suitable materials are: Natural latex, 1,0 mm thick, permeation time: max 480 min. or chloroprene 0.8 mm thick, permeation time: max.480 min.
Respiratory Protection	Not normally required if product is used as directed. Do not breathe in this product. Wear respiratory protection if ventilation is inadequate.
General Hygiene Considerations	Wash hands before break and after work. Keep away from food and drink. Remove contaminated clothing. Do not breathe vapours. Avoid contact with eyes and skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Light colour
Odour	Characteristic
Freezing Point	0 °C (32 °F)
Boiling Point	95 °C (203 °F)
Density	1,07 g/ml @ 20 °C (68 °F)
Solubility in Water	Soluble
pH	~ 12.5 (concentrated)
Vapour Density (air = 1)	Not applicable
Flash Point	Not applicable
Lower Flammable/Explosive Limit	Not applicable
Upper Flammable/Explosive Limit	Not applicable
VOC (g/L)	0

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable
Conditions to Avoid	Protect from freezing.
Incompatible Materials	Incompatibility with acids
Hazardous Decomposition Products	No hazardous decomposition products known.
Thermal Decomposition	No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

LC50/LD50 Values

Ingredients	CAS Number	LD ₅₀ RAT (oral)	LC ₅₀ RAT
Potassium Hydroxide	1310-58-3	365 mg/kg	N/Av
Sodium Metasilicate	6834-92-0	800 mg/kg	N/Av
2-Phosphonobutane-1,2,4-tricarboxylic acid	37931-36-1	>6500 mg/kg	N/Av
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	164462-16-2	>2000 mg/kg	N/Av

12. ECOLOGICAL INFORMATION

General Comments Behaviour in sewage plants: the product does not cause any disruption of sewage plants. The surfactants in the product are >90% biodegradable. Contains no phosphate. According to the formula, contains no Adsorbable Organic Halogen (AOX).

13. DISPOSAL CONSIDERATIONS

Eliminate while respecting municipal, provincial and federal regulations. Consider the pH value.

14. TRANSPORT INFORMATION

Shipping Information Not regulated under Canadian TDG Regulations.

Regulation	UN No.	Shipping Name	Class	Packing Group
Canadian TDG	3266	Corrosive liquid, basic inorganic, N.O.S (Potassium Hydroxide)	8	III

Other Transport Information

Special Shipping Information Not applicable

15. REGULATORY INFORMATION

Canada

Domestic Substances List (DSL) All ingredients are listed on the DSL or are not required to be listed.

CEPA - National Pollutant Release Inventory (NPRI) Not specifically listed.

USA

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

Toxic Substances Control Act All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA: RQ: 1,000 (Potassium hydroxide CAS 1310-58-3)

SARA Title III - Section 302: None

SARA Title III - Section 311/312: None

SARA Title III - Section 313: None

New Jersey Right To Know: Substance No. 1571 (Potassium hydroxide CAS 1310-58-3)

Section 112: Hazardous Air Pollutants (HAPS): None

16. OTHER INFORMATION

MSDS Prepared By Product Manager, Environmental Solutions and MRO

Phone No. 1-888-592-5837

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