

SAFETY DATA SHEET

SECTION 1) IDENTIFICATION

Product Name: Alustar 200
Synonym: L-79
Product Code: 53-G 705 (3.78 L), 53-G 707 (20 L), 53-G 708 (208 L), 53-G 709 (1000 L)
Revision Date: Apr 13, 2021 **Date Printed:** Jun 17, 2021
Version: 1.0 **Supersedes Date:** N.A.
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Information Phone Number: www.walter.com
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Product/Recommended Uses:

SECTION 2) HAZARDS IDENTIFICATION

Classification

Corrosive to metals - Category 1

Eye Irritation - Category 2

Skin Irritation - Category 2

Pictograms



Signal Word

Warning

Hazardous Statements - Health

H319 - Causes serious eye irritation

H315 - Causes skin irritation

Hazardous Statements - Physical

H290 - May be corrosive to metals

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention

P234 - Keep only in original packaging.

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

P390 - Absorb spillage to prevent material damage.

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

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P321 - Specific treatment (see First-aid on this label).

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

Precautionary Statements - Storage

P406 - Store in a corrosive resistant/... container with a resistant inner liner.

Precautionary Statements - Disposal

No precautionary statement available.

Hazards Not Otherwise Classified (HNOC) (Physical & Health)

No data available

Acute toxicity of 4.9% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
6834-92-0	SODIUM METASILICATE	1.00% - 5.00%
0037971-36-1	1,2,4-BUTANETRICARBOXYLIC ACID, 2-PHOSPHONO-	0.50% - 1.50%
0001310-58-3	POTASSIUM HYDROXIDE	0.50% - 1.50%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.

Remove contact lenses, if present and easy to do.

Continue rinsing for a duration of 30 minutes or until medical aid is available.

Take care not to rinse contaminated water into the unaffected eye or onto the face.

Immediately call a POISON CENTER or doctor.

Skin Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available.

Immediately call a POISON CENTER or doctor.

Wash contaminated clothing before re-use or discard.

Ingestion

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

Never give anything by mouth to an unconscious person.

Rinse mouth.

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

If vomiting occurs naturally, lie on your side, in the recovery position.

Most Important Symptoms and Effects, Both acute and Delayed

OVER-EXPOSURE SIGNS/SYMPTOMS

Eye Contact: Adverse symptoms may include pain, watering, redness.

Skin Contact: Adverse symptoms may include pain or irritation, redness, blistering may occur.

Ingestion: Adverse symptoms may include stomach pains.

Indication of Any Immediate Medical Attention and Special Treatment Needed

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

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

Specific Hazards in Case of Fire

In case of fire, hazardous decomposition products may include carbon oxides. Fire will produce irritating and corrosive gases. Containers may explode in fire.

Fire-Fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Evacuate and isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Recommended Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

Personal Precautions

Avoid breathing vapor or mist. Do not get on skin, eyes or clothing.

Environmental Precautions

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning Up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Contaminated absorbent material may pose the same hazard as the spilled product. If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated. Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use. Avoid contact with skin, eye or clothing. Avoid breathing vapor or mist. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored All containers must be properly labelled.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

Storage Room Requirements

Use appropriate containment to avoid environmental contamination. Store in approved containers and protect against physical damage. Containers that have been opened must be carefully resealed to prevent leakage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous. Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear safety glasses 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. Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

If vapor or mist is generated when material is heated or handled, provide adequate ventilation to keep the airborne concentrations of vapors below their respective threshold limit value. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	VLE Alteracion Efecto a la Salud	VLE Connotacion	ACGIH TLV Basis
POTASSIUM HYDROXIDE			C 2			Irritación del tracto respiratorio superior, ojos y piel	P	URT, eye, & skin irr

Chemical Name	ACGIH Notations	VLE CToP (mg/m3)	VLE CToP (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	VLE PPT (mg/m3)	VLE PPT (ppm)	OSHA STEL (mg/m3)
POTASSIUM HYDROXIDE		2						

Chemical Name	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	CAN_ONtmg	CAN_ONtppm	CAN_ONsmg	CAN_ONsppm
POTASSIUM HYDROXIDE								

Chemical Name	BR_NR_15_Annex_XI - Brazil_NR 15 - Annex 11 of NR 15 (Tolerance Limits for Chemical

(C) - Ceiling limit, irr - Irritation, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Density	1.05 to 1.07 g/ml
Specific Gravity	N/A
% VOC	0% (w/w)
Density VOC	N/A

Appearance	Transparent Liquid
Odor Threshold	N/A
Odor Description	N/A
pH	11 to 13
Water Solubility	Soluble in water
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	N/A
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	0 °C
Low Boiling Point	95 °C
High Boiling Point	N/A
Auto Ignition Temp	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A

SECTION 10) STABILITY AND REACTIVITY**Stability**

Stable under normal storage and handling conditions.

Conditions To Avoid

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

Hazardous Reactions/Polymerization

Will not occur.

Incompatible Materials

Strong bases, acids, and oxidizing agents. Corrosive in contact with metals.

Hazardous Decomposition Products

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

Acute Toxicity

Based on available data, the classification criteria are not met.

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization

Based on available data, the classification criteria are not met.

0001310-58-3 POTASSIUM HYDROXIDE

May cause a skin allergy.

Serious Eye Damage/Irritation

Causes serious eye irritation

0001310-58-3 POTASSIUM HYDROXIDE

Contact can severely irritate and burn the eyes leading to eye damage.

Skin Corrosion/Irritation

Causes skin irritation

0001310-58-3 POTASSIUM HYDROXIDE

Contact can severely irritate and burn the skin.

Specific Target Organ Toxicity - Repeated Exposure

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

0001310-58-3 POTASSIUM HYDROXIDE

Exposure can cause headache, dizziness, nausea and vomiting.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

0001310-58-3 POTASSIUM HYDROXIDE

LD50 (oral, rat): 365 mg/kg (7)

LD50 (oral, male rat): 273 mg/kg (8)

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Based on available data, the classification criteria are not met.

0001310-58-3 POTASSIUM HYDROXIDE

LC50(Fish - Gambusia Affinis , 96 hrs) : 80 mg/L

Mobility in Soil

No data available.

Bioaccumulative Potential

No data available.

Persistence and Degradability

No data available.

Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14) Transport Information

	IATA Information	IMDG Information	U.S. DOT Information	Canada TDG Information
UN number:	UN3264	UN3264	UN3264	UN3264
Proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (POTASSIUM HYDROXIDE)	Corrosive liquid, acidic, inorganic, n.o.s. (POTASSIUM HYDROXIDE)	Corrosive liquid, acidic, inorganic, n.o.s. (POTASSIUM HYDROXIDE)	Corrosive liquid, acidic, inorganic, n.o.s. (POTASSIUM HYDROXIDE)
Hazard class:				8
Hazard class:	8	8	8	
Packaging group:	III	III	III	III
Hazardous substance (RQ):			No Data Available	
Marine Pollutant:	NA	No Data Available	No Data Available	No Data Available
Note / Special Provision:	No Data Available	No Data Available	No Data Available	No Data Available
Toxic-Inhalation Hazard:	NA	NA	No Data Available	No Data Available

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0001310-58-3	POTASSIUM HYDROXIDE	0.50% - 1.50%	DSL, TSCA

The information in this Section does not list non-hazardous components that might have relevant Canada NPRI, DSL, TSCA regulatory values, if they are present at less than 5%. Please contact manufacturer for more information.

SECTION 16) OTHER INFORMATION

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-

469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System. ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

Version 1.0:

Revision Date: Apr 13, 2021

First Edition.

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