This brief provides a general overview of the **Safety Data Sheet** requirements in the Hazard Communication Standard OSHA's 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200).

Section 1 ~ Identification

Identity (As Used On Label and List) **G3081 ALUMINUM BRITE**	**Date Prepared:** 01/05/25
Company Information: OMEGA INDUSTRIAL SUPPLY, INC	**Emergency Telephone Number:** 1-800-424-9300
Address (Number, Street, Suite/Apt#) 1133 WEST 27TH STREET	**Telephone Number for Information:** 1-800-571-7347
(City, State, and Zip Code) CHEYENNE, WY 82001	**Signature of Prepare (Optional)** REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

Classifications

Acute toxicity (oral), Category 4 - Harmful if swallowed
Skin corrosion/irritation, Category 1B - Causes severe skin burns and eye damage
Serious eye damage/eye irritation, Category 1 - Causes serious eye damage
Carcinogenicity, Category 1A - May cause cancer (Dermal)

Label Elements

Signal Word: **DANGER**

Hazard Statement

Harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May cause cancer (Dermal)

Contains: ammonium hydrogen difluoride; sulfuric acid, conc>51%, aqueous solutions

Precautionary Statement

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Do not breathe vapors, spray, mist
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product
Wear eye protection, protective gloves
If swallowed: Call a doctor if you feel unwell
If swallowed: rinse mouth. Do NOT induce vomiting
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If inhaled: Remove person to fresh air and keep comfortable for breathing
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If exposed or concerned: Get medical advice/attention Immediately call a doctor
Specific treatment (see First Aid measures on this label)
Rinse mouth
Wash contaminated clothing before reuse
Store locked up
Dispose of contents/container to an approved waste disposal plant

Other Hazards

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

Section 3 ~ Composition/Information on Ingredients

Substance
Not applicable

Mixture

Name	**Product identifier**	**%**	**GHS-US classification**
Ammonium hydrogen difluoride	(CAS No) 1341-49-7	8 - 9	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314
Sodium xylenesulfonate	(CAS No) 1300-72-7	3 - 4	Skin Irrit. 2, H315 STOT SE 3, H335 Eye Irrit. 2A, H319
Sulfuric acid, conc>51%, aqueous solutions	(CAS No) 7664-93-9	0.5 - 1	Skin Corr. 1A, H314 Carc. 1A, H350

Full text of H-statements: see section 16

Section 4 ~ First Aid Measures

Description of first aid measures
First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact: 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/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms and effects, both acute and delayed
Symptoms/injuries: Causes severe skin burns and eye damage.
Symptoms/injuries after eye contact: Causes serious eye damage.
Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

Section 5 ~ Firefighting Measures

Extinguishing media
Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media: Do not use a heavy water stream.

Special hazards arising from the substance or mixture
Reactivity: Corrosive vapours.

Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6 ~ Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
For non-emergency personnel Emergency procedures: Evacuate unnecessary personnel.
For emergency responders Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections
See Heading 8. Exposure controls and personal protection.

Section 7 ~ Handling and Storage

Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors, spray, mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Technical measures: Comply with applicable regulations.
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Heat sources. Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.

Section 8 ~ Exposure Controls/Personal Protection

Control parameters
Ammonium hydrogen difluoride (1341-49-7): Not applicable

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)

ACGIH	Remark (ACGIH)	Pulm func
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m

Sodium xylenesulfonate (1300-72-7): Not applicable

Exposure controls
Personal protective equipment: Avoid all unnecessary exposure.
Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or face shield.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Wear appropriate mask.
Other information: Do not eat, drink or smoke during use.

Section 9 ~ Physical and Chemical Properties

Physical state: Liquid
Color: Green
Odor: Acidic
Odor threshold: No data available
pH: 1-2
Melting point: No data available

Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butylacetate=1): No data available
Flammability (solid, gas): No data available
Explosive limits: No data available
Explosive properties: No data available
Oxidising properties: No data available
Vapor pressure: No data available
Relative density: 1.091
Relative vapor density at 20 °C: No data available
Solubility: Water: Solubility in water of component(s) of the mixture: • ammonium hydrogen difluoride: 63 g/100ml • nonylphenoxypoly(ethyleneoxy)ethanol: soluble
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available

Other information
No additional information available

Section 10 ~ Stability and Reactivity

Reactivity: Corrosive vapours.
Chemical stability: Not established.
Possibility of hazardous reactions: Not established.
Conditions to avoid: Direct sunlight. Extremely high or low temperatures.
Incompatible materials: Strong acids. Strong bases.
Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapours.

Section 11 ~ Toxicological Information

Acute toxicity: Oral: Harmful if swallowed.

ALUMINUM BRITE
ATE US (oral) 1444.444 mg/kg bodyweight

Ammonium hydrogen difluoride (1341-49-7)
LD50 oral rat 130 mg/kg (Rat; Literature)
ATE US (oral) 130.000 mg/kg bodyweight

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)
LD50 oral rat > 2140 mg/kg (Rat)

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: May cause cancer (Dermal).

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)

IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after eye contact: Causes serious eye damage.
Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

Section 12 ~ Ecological Information

Toxicity

Ammonium hydrogen difluoride (1341-49-7)
LC50 fish 1 < 562 mg/l (LC50; 96 h; Brachydanio rerio)

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)
LC50 fish 1 42 mg/l (LC50; 96 h)
EC50 Daphnia 1 29 mg/l (EC50; 24 h)

Persistence and degradability

ALUMINUM BRITE
Persistence and degradability Not established.

Ammonium hydrogen difluoride (1341-49-7)

Persistence and degradability	Biodegradability: not applicable. Not established.
ThOD	Not applicable

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)

Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

Sodium xylenesulfonate (1300-72-7)

Persistence and degradability	Biodegradability in water: no data available. Not established.

Bioaccumulative potential

ALUMINUM BRITE

Bioaccumulative potential	Not established.

Ammonium hydrogen difluoride (1341-49-7)

Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)

Log Pow	-2.20 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

Sodium xylenesulfonate (1300-72-7)

Bioaccumulative potential	No bioaccumulation data available. Not established.

Mobility in soil
No additional information available

Other adverse effects
Effect on the global warming: No known ecological damage caused by this product.
Other information: Avoid release to the environment.

Section 13 ~ Disposal Considerations

Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an approved waste disposal plant.
Ecology - waste materials: Avoid release to the environment.

Section 14 ~ Transportation Information

Department of Transportation (DOT)
In accordance with DOT

Transport document description: UN2817 Ammonium hydrogendifluoride, solution, 8, II
UN-No.(DOT): UN2817
Proper Shipping Name (DOT): Ammonium hydrogendifluoride, solution
Class (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT): 8 – Corrosive 6.1 – Poison

Packing group (DOT): II - Medium Danger
DOT Packaging Bulk (49 CFR 173.xxx): 243
DOT Packaging Exceptions (49 CFR 173.xxx): 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 30 L
DOT Vessel Stowage Location: B - (i) The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) ‘‘On deck only’’ on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded
DOT Vessel Stowage Other: 40 - Stow ‘‘clear of living quarters’’
Emergency Response Guide (ERG) Number: 154
Other information: No supplementary information available.

TDG
No additional information available

Transport by sea
UN-No. (IMDG): 2817
Proper Shipping Name (IMDG): AMMONIUM HYDROGENDIFLUORIDE SOLUTION
Class (IMDG): 8 - Corrosive substances
Packing group (IMDG): II - substances presenting medium danger

Air transport
UN-No. (IATA): 2817
Proper Shipping Name (IATA): Ammonium hydrogendifluoride solution
Class (IATA): 8 - Corrosives
Packing group (IATA): II - Medium Danger

Section 15 ~ Regulatory Information

US Federal regulations

ALUMINUM BRITE
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory
Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Sulfuric acid, conc>51%, aqueous solutions
CAS No 7664-93-9 0.5 - 1%

Ammonium hydrogen difluoride (1341-49-7)
CERCLA RQ 100 lb

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)
CERCLA RQ 1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ) 1000 lb

International regulations
CANADA: No additional information available
EU-Regulations: No additional information available

National regulations

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)
Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)

US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Ammonium hydrogen difluoride (1341-49-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Sulfuric acid, conc>51%, aqueous solutions (7664-93-9)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Section 16 ~ Other Information

Full text of H-statements:
H301 Toxic if swallowed
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H350 May cause cancer

	NFPA	HMIS	Key
HEALTH	3	3	4= Severe
FLAMMABILITY	0	0	3= Serious
REACTIVITY	1		2= Moderate
PHYSICAL		1	1= Slight
PERSONAL PROTECTION		B	0= Minimal

End of Safety Data Sheet