Safety Data Sheet

Issue Date: Mar 2023 (v2)

ISSUED by Eazy-Gleam Pty Ltd

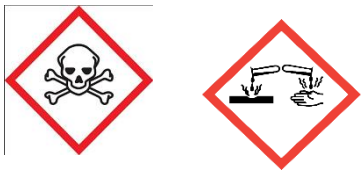
Alloy Cleaner 101

Classified as hazardous according to criteria of GHS
Dangerous Goods

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Alloy Cleaner 101
Product Code	Ac1015, AC10120, AC101205
Company Name	Total Focus Chemicals (ABN 24 710 260 621)
Address	36 Richland Ave
Emergency Tel.	After hours only: 0477 447 999
Telephone/Fax Number	Tel: (07) 3274 2593 Fax: (07) 3277 2450
Email	sales@eazygleam.com.au
Recommended Use	Aluminium cleaner & brightener
Other Information	The information herein is, to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions of application are beyond our control, Eazy-Gleam Pty Ltd does not accept liability for any damages resulting from the use of, or reliance on, this information, in inappropriate contexts.

2. HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous according to criteria of GHS Dangerous goods according to the Australian Dangerous Goods Code. Corrosive to Metals: Category 1 Eye Damage: Category 1 Skin Damage: Category 1 Acute Inhalation Toxicity: Category 3 Acute Oral Toxicity: Category 4
Signal Word	DANGER
Hazard Statement(s)	Corrosive to metals. Toxic if Swallowed. Toxic if Inhaled. Causes severe skin burns and eye damage .
Pictogram:	

Precautionary Statements

Prevention: Keep only in original container.
Do not breathe fumes, mist, vapors or spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye and face protection.

Response: Immediately call a POISON CENTER or doctor. Specific treatment for hydrofluoric acid exposure is urgent (see First Aid Measures on this SDS)
IF INHALED Remove victim to fresh air and keep at rest in a position 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 SWALLOWED Rinse mouth, Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage

Storage: Store locked up in a well-ventilated place. Keep container tightly closed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Sulfuric Acid	7664-93-9	5 -10%
	Ethoxylated Alcohol	68131-39-5	<5%
	Hydrofluoric Acid	7664-39-3	<1%

4. FIRST AID MEASURES

Inhalation Remove the victim from the source of exposure; keep them warm and calm. If unconscious, place them in a suitable position and seek medical attention. Oxygen should be given as soon as possible by a trained first aider. If the victim is not breathing, apply artificial resuscitation. Avoid mouth-to-mouth contact by using CPR barriers such as mouth guards or face shields. Do not administer anything orally.

Ingestion Do NOT induce vomiting. Rinse the person's mouth with clean water. Give half to one cup of water, milk, or calcium/ magnesium-containing antacid for conscious victims.
Call emergency services right away and inform the dispatcher that victim was exposed to hydrofluoric acid.

Skin Immediately flood the exposed area with large amounts of water. Remove all contaminated clothing, including jewellery, while rinsing.
Use a calcium gluconate gel to massage the skin thoroughly while flushing with water. Never touch the victim without gloves and other protective gear.
Call emergency services right away and inform the dispatcher that victim was exposed to hydrofluoric acid.
Continue the application of calcium gluconate gel while waiting for medical services to arrive.

Eye If wearing contact lenses, remove them. Hold the eyes open, eye lids up and flush with water for at least 15 minutes.
Seek immediate medical attention. Call emergency medical services and apply an ice compress to the eye area while waiting for help to arrive

First Aid Facilities	A safety shower and an eye irrigation facility should be provided. This Safety Data Sheet should be provided to the attending medical doctor. Normal washroom facilities are generally suitable. It is recommended that an eyewash station be available and ready for use.
Advice to Doctor	Never touch the victim without gloves and other protective gear. Treat for Hydrofluoric Acid exposure.

5. FIRE FIGHTING MEASURES

Fire Fighting Measures	This product is not flammable under the conditions of storage and use and does not support combustion.
Suitable Extinguishing Media	Use the extinguisher appropriate to the principal fire hazard or to the source of the fire.
Hazards from Combustion Products	If this product is involved in a fire, the water contained in it may evaporate, leaving a residue which may combust. During combustion, the residue may produce carbon monoxide as well as other unidentifiable organic compounds.
Special Protective Equipment for fire fighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Material can react violently with water (spattering and misting) and react with metals to produce flammable hydrogen gas
Specific	Emits toxic fumes (hydrogen fluoride gas) under fire conditions. (See also Stability and Reactivity section)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For exposure control and individual protection measures, see section 8.

Spills & Disposal	Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations relating to the handling and disposal of Schedule 7 Poisons.
Environmental protection precautions	Prevent spillage from entering drains. Any release to the environment is subject to federal/national or local reporting requirements for Schedule 7 Poisons

7. HANDLING AND STORAGE

Handling and Storage	The product should be handled as such in accordance with the appropriate legislation. See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Store locked up, in a cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities) Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limit (OEL)

Ingredient data

Name	TWA		STEL	
	ppm	mg/m^3	ppm	mg/m^3
Hydrofluoric Acid	3 (peak)	2.6 (peak)	no data available	no data available
Sulfuric Acid	No data available	1	no data available	3

Appropriate Engineering Controls

Provide local exhaust. Ensure Emergency eyewash and shower are close by.

Personal Protection

Eye and Face Protection: Wear chemical safety glasses with a face shield for splash protection. Where large quantities are handled and there is danger of splashng, complete eye protection such as goggles is required.

Skin:

For prolonged or repeated contact, use polyvinyl alcohol or nitrile rubber types of gloves. Full body (synthetic) protective clothing as appropriate to the risk of exposure

Inhalation: If local ventilation is inadequate, use an approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, green liquid with acrid odour
Boiling Point	100°C
Solubility in Water	Complete
Specific Gravity	1.01 – 1.03g/L (25°C)
pH Value	<1
Evaporation Rate	As for Water
Volatile Component	Non-Flammable
Flash Point	This product will not flash and does not support combustion.
Flammability	This product is not flammable under the conditions of use and does not support combustion.
Flammable Limits - Lower	Not applicable. This product is an aqueous solution.
Flammable Limits - Upper	Not applicable. This product is an aqueous solution.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under the recommended handling and storage conditions (see section 7).
Hazardous decomposition products	In case of fire, dangerous decomposition products can be generated, such as Hydrogen Fluoride gas
Incompatible Materials	Keep away from moisture, bases, organic material, metals, glass, ceramics, aluminum, stainless steel, carbonates, cyanides, sulfides. Reacts violently with acetic anhydride, ammonium hydroxide, arsenic trioxide, calcium oxide, potassium permanganate, sodium, sodium hydroxide, sulfuric acid.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	There is no tested data available on the product. Acute toxicity data for components are as follows: ***Hydrofluoric Acid*** Skin: No data available Eyes: No data available Respiratory: LC50 (rat) 2240-2340 ppm Ingestion: LD100 (guinea pig) 80mg/kg ***Sulphuric Acid*** Skin: No data available Eyes: No data available Respiratory: LC50 (rat) 0.255mg/L Ingestion: LD50 (rat) 2140mg/kg
Inhalation	Burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache or nausea. In extreme cases, death.
Ingestion	Severe and rapid corrosive burns of the mouth, gullet and gastrointestinal tract, burning, choking, nausea, vomiting and severe pain.
Skin	May cause severe burns. Effects may not be seen until 24 hours after exposure. May cause permanent tissue damage.
Eye	Corrosive to eyes. May cause permanent damage. Burns, pain, watering eyes
Chronic Effects	May cause Fluorosis or hypocalcaemia
Reproductive Toxicity	May cause fetal toxicity based on animal data.
Mutagenicity	May cause genetic effects based on animal data
STOT	Liver, Kidneys, Bone

12. ECOLOGICAL INFORMATION

Short Summary of Assessment of Environmental Impact	There is no tested data available on the preparation. The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground. Predicted to be Harmful to Aquatic Systems due to extremely low pH

13. DISPOSAL CONSIDERATIONS

Product Disposal	Alloy Cleaner 101 contains Hydrofluoric Acid and as such must comply with strict disposal requirements as per SUSMP and EPA legislation. Users should review their operations in terms of the applicable regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue
Container Disposal	Containers should not be re-used due to the risk of contamination.

14. TRANSPORT INFORMATION

Transport Information	This material is classified as a 8 Corrosive Substances with a subsidiary risk of Class 6.1 Toxic Substances Dangerous Goods This product is incompatible in a placard load with any of the following: - Class 1: Explosives - Division 4.3: Dangerous when wet Substances - Division 5.1: Oxidising substances - Division 5.2: Organic peroxides - Class 7: Radioactive materials unless specifically exempted and are incompatible with food and food packaging in any quantity. Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong
UN Number	1786
Proper Shipping Name	HYDROFLUORIC ACID AND SULPHURIC ACID MIXTURE
ADG Class	Class 8 - Corrosive
Subsidiary Group	Class 6.1 – Toxic
Packing Group	I
HazChem	2W
IMO Marine Pollutant	This product is considered by IMO to be a Marine Pollutant.

15. REGULATORY INFORMATION

Poisons Schedule	S6
AICS (Australia)	To the manufacturer's best knowledge, all components of this product are listed on AICS.

16. OTHER INFORMATION

References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants. Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals

Contact Person/Point	Technical Manager 0477 447 999

DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never return any unused material to original drum.
The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writers knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product

...End Of SDS…