

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1. Product identifier

Product name : STAR BRITE ULTIMATE ALUMINUM CLEANER/RESTORER
 Product code : 877XX

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application : Consumer product. Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier : Star Brite
 4041 SW 47th Avenue
 33314 Fort Lauderdale, Florida, United States of America
 Telephone : 001 800 3278583
 Website : <http://www.starbrite.com>

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
 US - Telephone : 001 703 5273887 (During office hours only)
 EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
 CHEMTREC 001 703 5273887 (24/7)

SECTION 2 HAZARDS IDENTIFICATION
2.1. Classification of the substance or mixture

HPR classification : Skin corrosive, category 1C.
 Human health hazards : Causes severe skin burns and eye damage.
 Physical/chemical hazards : Reacts vigorously in contact with alkalines. Strong heat development possible.

2.2. Label elements

Label elements (HPR)

Hazard pictograms :



Signal word : Danger

H- and P-phrases :

H314	Causes severe skin burns and eye damage.
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.
P260 dust/ mist	Do not breathe dusts or mists.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P321 Specific treatment (see ... on this label).
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 100 ml:

Hazard pictograms :



Signal word : Danger

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w%)	CAS nr.	Additional CAS nr.
Sulphuric acid	5 - 10	7664-93-9	-----

Occupational exposure limit(s), if relevant, are listed in section 8. The actual concentration has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water before product dries up. Consult a doctor in case burns or irritation occur.
- Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor immediately.
- Ingestion : Do not induce vomiting. Rinse the mouth, give 1 glass of water at most. Do not give milk. Never give anything by mouth to an unconscious person. Consult a doctor immediately if victim feels unwell.

4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

- Inhalation : Irritant. May cause sore throat and coughing.
- Skin contact : Corrosive. May cause redness, pain and burns (blisters).
- Eye contact : Corrosive. May cause redness and severe pain. Tears.
- Ingestion : Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.
Not suitable : None known.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs. Hydrogen fluoride Sulphur oxides.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation. Note that extinguishing water can be corrosive.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.

6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Large scale discharge causing a very low pH may impair the biological system in sewage plants. Inform the official bodies if necessary.
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spilled material in containers. Carefully neutralise residues with soda. Absorb residues in sand or other inert material. Do not use saw-dust. Dispose at an authorised waste collection point. Wash away remainder with plenty of water.

6.4. Reference to other sections

- Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. When dissolving or diluting, always add product to water. NEVER vice versa. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing. After contact with skin, wash immediately with plenty of water.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C).
Recommended packaging : Keep only in the original container.
Non recommended packaging : Steel (except stainless steel).

7.3. Specific end use(s)

- Use : Use only as directed. Do not mix with other products.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Province	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments	Source
Sulphuric acid	PE	0,2	-	thoracic particulate matte	Yukon Occupational Health Regulations Chemical and Biological Substances Guide, 2010 WorkSafeBC Table of exposure limits, 2016/07/15 Occupational health and Safety Code 2009 GESTIS GESTIS ACGIH
Sulphuric acid	NT	0,2	0,6	thoracic fraction, strong acid mists only	
Sulphuric acid	NU	0,2	0,6	thoracic fraction	
Sulphuric acid	NS	0,2	-	thoracic particulate matter	
Sulphuric acid	NL	0,2	-	thoracic particulate matter	
Sulphuric acid	MB	0,2	-	thoracic particulate matter	
Sulphuric acid	NB	1	3	-	
Sulphuric acid	YT	1	1	-	
Sulphuric acid	SK	0,2	0,6	thoracic fraction, strong acid mists only	
Sulphuric acid	BC	0,2	-	thoracic, contained in strong inorganic acid mists	
Sulphuric acid	AB	1	3	-	
Sulphuric acid	QC	1	-	-	
Sulphuric acid	ON	0,2	-	thoracic aerosol	
Sulphuric acid	US	0,2	-	thoracic particulate matter, Skin notation N	

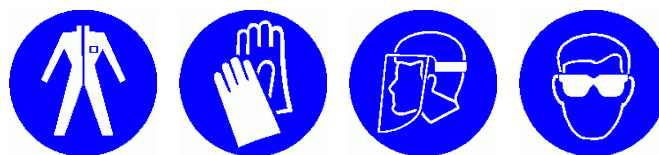
8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots. Suitable material: laminated film. Indication of permeation breakthrough time: 6 hours.

Respiratory protection : Take care of sufficient ventilation.

Hand protection : Wear appropriate safety gloves. Suitable material: laminated film. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear a face shield or appropriate safety glasses with side shields.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES
9.1. Information on basic physical and chemical properties

Appearance	: Liquid.	
Colour	: Colourless.	
Odour	: Characteristic.	
Odour threshold	: Not known.	
pH	: 1	
Acid reserve (g NaOH/100 ml)	: 7,61	
Solubility in water	: Soluble.	
Partition coefficient (n-octanol/water)	: Not applicable.	Contains surfactants. The O/W system emulsifies. Not measured. Not relevant for mixtures.
Flash point	: Not applicable.	
Flammability (solid, gas)	: Not applicable.	Liquid.
Auto ignition temperature	: > 455 °C	
Boiling point/boiling range	: 100 °C	
Melting point/melting range	: 0 °C	
Explosive properties	: None known.	Does not contain explosives.
Explosion limits (% in air)	: Not applicable.	
Oxidising properties	: Not applicable.	
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: Not known.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: 2300 Pa	
Vapour density (20°C)	: Not relevant.	The solvent content of this product is less than 1%.
Relative density (20°C)	: 1,03 g/ml	
Evaporation rate	: < 1	(n-butyl acetate = 1)

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : Reacts vigorously in contact with alkalines. Strong heat development possible.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from bases. Keep away from bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

- Acute toxicity : Calculated LC50: > 4,024 mg/l. Ingredients of unknown toxicity: 2 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Corrosive. May cause sore throat and coughing. May cause pulmonary oedema. Symptoms of pulmonary oedema often manifest after several hours.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Corrosive. May cause redness, pain and burns (blisters).
- Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Corrosive. Risk of serious damage to eyes.

Ingestion

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Not classified - based on available data, the classification criteria are not met. Does not contain substances with an aspiration hazard.
- Corrosion/irritation : Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Sulphuric acid	LD50 (oral)	2140 mg/kg bw	----	Rat
	Eye irritation	Severely irritant		Rabbit
	Mutagenicity	Positive	----	----
	Mutagenicity - estimate	Not mutagenic		
	Skin sensitisation - estimate	Not sensitizing		
	Genotoxicity - in vitro	Genotoxic		
	Genotoxicity - estimate	Not genotoxic		
	Skin irritation	Corrosive.		
	LC50 (inhalation)	375 mg/m3		Rat
	NOAEL (developmental toxicity, inh.)	> 19,3 mg/m3	OECD 414	Mouse
LC50 (inhalation) - estimate	> 5000 mg/m3			

SECTION 12 ECOLOGICAL INFORMATION
12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 136 mg/l. Calculated EC50 (waterflea): 415 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : No specific information known.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : None.

Waste water discharge : Do not dispose into the environment, in drains or in water courses.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : UN 1760

14.2. UN proper shipping name

Transport name : CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID)

Transport name (IMDG, IATA) : CORROSIVE LIQUID, N.O.S. (Sulphuric acid)

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

TDG (land)

Class : 8

Classification code : C9

Packaging group : III

Danger label : 8



Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 8

Packaging group : III

EmS (fire / spill) : F - A / S - B
 Marine pollutant : No

IATA (air)
 Class : 8

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations : Hazardous Products Regulation 2015 and other regulations.

Substances listed on Canadian Domestic Substances List (DSL)
 : Sulphuric acid

SECTION 16 OTHER INFORMATION
16.1. Other information

The information in this safety data sheet is compiled in compliance with the Hazardous Products Regulation 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ATE : Acute Toxicity Estimate
 CMR : Carcinogenic, Mutagenic or toxic for Reproduction
 DSL : Domestic Substances List
 GHS : Globally Harmonized System of Classification and Labelling of Chemicals
 HPA : Hazardous Products Act
 HPR : Hazardous Products Regulations
 IATA : International Air Transport Association
 IBC code : International Bulk Chemical Code
 IMDG : International Maritime Dangerous Goods Code
 LD50/LC50 : Lethal Dose/Concentration for 50% of a population
 MARPOL : International Convention for the Prevention of Pollution From Ships
 NO(A)EL : No Observed (Adverse) Effect Level
 OECD : Organisation for Economic Co-operation and Development
 OSHA : United States Occupational Safety and Health Administration
 PBT : Persistent, Bioaccumulative and Toxic
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
 STP : Sewage Treatment Plant
 TDG : Transportation of Dangerous Goods
 TWA/STEL : Time-Weighted Average/Short Term Exposure Limit



SAFETY DATA SHEET

According to the Hazardous Products Regulation 2015

UN : United Nations
VOC : Volatile Organic Compounds
vPvB : Very Persistent and Very Bioaccumulative
WHMIS : Workplace Hazardous Materials Information System
Number format : "," used as decimal separator.

End of safety data sheet.