



Safety Data Sheet

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BONDERITE C-IC ALBRITE HEAVY ACID CLEANER known
as TURCO ALBRITE HEAVY (20LT)

SDS No. : 319701

V001.4

Date of issue: 22.01.2016

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: BONDERITE C-IC ALBRITE HEAVY ACID CLEANER known as TURCO ALBRITE HEAVY (20LT)

Intended use: Acidic Cleaner for Industrial Application

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Corrosive to metals	Category 1	
Acute toxicity	Category 3	Oral
Acute toxicity	Category 3	Inhalation
Acute toxicity	Category 2	Dermal
Skin corrosion	Category 1A	
Serious eye damage	Category 1	
Acute hazards to the aquatic environment	Category 2	

Hazard pictogram:



Signal word:

Danger

**BONDERITE C-IC ALBRITE HEAVY ACID
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(20LT)**

Hazard statement(s):	H290 May be corrosive to metals. H301+H331 Toxic if swallowed or if inhaled. H310 Fatal in contact with skin. H314 Causes severe skin burns and eye damage. H401 Toxic to aquatic life.
Precautionary Statement(s):	
Prevention:	P234 Keep only in original container. P260 Do not breathe vapors, mist, or spray. P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment.
Response:	P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. P303+P361+P353+P315 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical advice/attention. P304+P340+P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. 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. P361 Take off immediately all contaminated clothing. P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Classification of material T+ - Very toxic C - Corrosive

Risk phrases:

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
R35 Causes severe burns.
R41 Risk of serious damage to eyes.

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S35 This material and its container must be disposed of in a safe way.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Dangerous Goods information:

Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:

HAZARDOUS

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Section 3. Composition / information on ingredients

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Hydrogen fluoride (HF)	7664-39-3	< 10 %
Alcohol C12-15, ethoxylate 8EO	68131-39-5	< 3 %
Remainder not hazardous including water~		60- 100 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Immediate medical treatment necessary.
Skin:	Remove contaminated clothes while protecting yourself. Immediately rinse with copious amounts of running water (for 10 minutes). Then immediately treat contaminated skin with 2,5% Ca-gluconate gel. Put on a bandage with sterile gauze. GET MEDICAL ATTENTION IMMEDIATELY! Can penetrate into deeper parts of the skin and cause burns which are very painful and cure very slowly. Immediately remove soiled or soaked clothing.
Eyes:	Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor. Immediate medical treatment necessary.
Inhalation:	If inhaled, immediately remove the affected person to fresh air. Immediate medical treatment necessary.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities Calcium gluconate gel
Medical attention and special treatment:	Treat symptomatically. Ocular exposure to corrosive fluoride compounds has been treated with isotonic sodium chloride or magnesium chloride. Dermal exposure to corrosive fluoride compounds has been treated with calcium gluconate or calcium carbonate gel applied topically to the affected areas to relieve pain at the site of exposure. Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

Section 5. Fire fighting measures

Suitable extinguishing media:	Dry chemical. Water spray or fog. Flood with water or carbon dioxide.
Improper extinguishing media:	Water spray jet
Combustion behaviour:	Non-flammable (aqueous solution).

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Decomposition products in case of fire::	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Hydrogen fluoride gas may evolve when chemical is subjected to prolonged high temperature. Flammable and explosive hydrogen gas may be formed when hydrofluoric acid reacts with certain metals. Hydrogen fluoride gas may evolve when chemical is subjected to prolonged high temperature.
Particular danger in case of fire::	Heating above 260-290°C (500-554°F) may form potentially toxic fluorine compounds.
Special protective equipment for fire-fighters:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Additional fire fighting advice:	Do not inhale vapors and fumes. In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
Hazchem code:	2X

Section 6. Accidental release measures

Personal precautions:	Ensure adequate ventilation. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material. Avoid contact with skin and eyes. Wear protective equipment. Keep unprotected persons away. See advice in section 8
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Dike the spilled material, where this is possible. Neutralize with acid-binding material (e.g. powdered limestone). Mix with large amounts of DRY inert absorbent material such as DRY soda ash or DRY sand. Remove the absorbed material, and place in an appropriate chemical waste container for disposal.

Section 7. Handling and storage

Precautions for safe handling:	See advice in section 8 Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Wash thoroughly after handling. Use only in well-ventilated areas.
Conditions for safe storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Store in sealed original container. Isolate from incompatible substances. Must be stored in the facility for the dangerous goods
Suitable materials with product:	Plastic containers
Unsuitable materials with product:	Avoid contact with aluminium, zinc and tin. Glass

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Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
HYDROGEN FLUORIDE (AS F) 7664-39-3		-	-	3	2.6	-	-

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Eye protection:

Wear chemical goggles and face shield.

Skin protection:

Wear protective equipment.
Suitable protective gloves.
Protective clothing that covers arms and legs.
Recommended gloves include butyl rubber and neoprene.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection:

If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance:	colourless clear
Odor:	Acrid
pH:	< 2
Boiling point:	100 °C (212 °F) Approximately
Solubility in water:	Completely soluble

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid heating.

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Incompatible materials: Can attack glass and vitreous materials.
Organic materials.
Oxidizing agents.
Alkalis.
Explosive HYDROGEN GAS may be released if aqueous solutions of this material come into contact with reactive metals (IRON, ZINC, ALUMINUM).

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

Carbon monoxide.
Carbon dioxide.
Hydrogen fluoride.
Explosive HYDROGEN GAS may be released if aqueous solutions of this material come into contact with reactive metals (IRON, ZINC, ALUMINUM).

Section 11. Toxicological information

Health Effects:

Ingestion: Toxic if swallowed.
This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion of large amounts of this product may result in fluoride poisoning including symptoms of calcification of the ligaments and severe bone changes making normal movements painful, mottling of the teeth, pulmonary fibrosis, anemia, anorexia, dental effects, and possibly death.

Skin: Also very toxic in contact with skin.
Causes burns.
Hydrofluoric acid will penetrate the skin and attack underlying tissue and bone. Large burns (over 25 square inches) may also cause hypocalcemia and other systemic effects which may be fatal.

Eyes: Contact with the eyes can cause severe burns and permanent eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation: Toxic by inhalation.
Respiratory tract burns.

Chronic effects: Contains fluorides. Exposure to fluorides over years may cause fluorosis.

Toxicity data:
No data available.

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Hydrogen fluoride (HF) 7664-39-3	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Hydrogen fluoride (HF) 7664-39-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Hydrogen fluoride (HF) 7664-39-3	NOAEL=0,82 mg/m ³	inhalation: gas	6 h 5 days/week	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

Section 12. Ecological information**General ecological information:**

Do not empty into drains / surface water / ground water., Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Ecotoxicity:

Toxic to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Hydrogen fluoride (HF) 7664-39-3	LC50	107.5 mg/l	Fish	96 h	Daphnia sp.	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrogen fluoride (HF) 7664-39-3	EC50	270 mg/l	Daphnia	48 h		OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrogen fluoride (HF) 7664-39-3	EC10	650 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrogen fluoride (HF) 7664-39-3	EC50	> 1,000 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrogen fluoride (HF) 7664-39-3	EC10	231 mg/l	Bacteria	16 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohol C12-15, ethoxylate 8EO 68131-39-5	LC50	> 1 - 10 mg/l	Fish	96 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Alcohol C12-15, ethoxylate 8EO 68131-39-5	EC 50	130 mg/l	Bacteria			

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Alcohol C12-15, ethoxylate 8EO 68131-39-5		aerobic	> 80 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Alcohol C12-15, ethoxylate 8EO 68131-39-5	readily biodegradable	aerobic	65 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

Section 13. Disposal considerations

Waste disposal of product:	In consultation with the responsible local authority, must be subjected to special treatment: Neutralisation
Recommended cleanser:	Clean the packaging with water.
Disposal for uncleaned package:	Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information:	Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.:	1790
Proper shipping name:	HYDROFLUORIC ACID (solution)
Class or division:	8 (6.1)
Packing group:	II
Hazchem code:	2X
Emergency information:	Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

UN no.:	1790
Proper shipping name:	HYDROFLUORIC ACID (solution)
Class or division:	8 (6.1)
Packing group:	II
EmS:	F-A ,S-B
Seawater pollutant:	-

Air transport IATA:

UN no.:	1790
Proper shipping name:	Hydrofluoric acid (solution)
Class or division:	8 (6.1)
Packing group:	II
Packing instructions (passenger)	851
Packing instructions (cargo)	855

Section 15. Regulatory information

SUSMP Poisons Schedule	7
AICS:	All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information

Abbreviations/acronyms:	ADGC - Australian Dangerous Goods Code IMDG: International Maritime Dangerous Goods code IATA-DGR: International Air Transport Association – Dangerous Goods Regulations STEL - Short term exposure limit TWA - Time weighted average
Reason for issue:	Reviewed SDS. Reissued with new date. involved chapters: 1 - 16
Date of previous issue:	04.04.2014
Disclaimer:	<p>The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material. The information contained in the Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel Australia Pty. Limited assumes no legal responsibility for reliance upon same. Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet. This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by either Commonwealth or State statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.</p>