



## Safety Data Sheet

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

SDS No. : 319722

V001.5

Date of issue: 22.01.2016

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

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

**Intended use:** Pretreatment product

**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>	<u>Target organ</u>
Acute toxicity	Category 3	Oral	
Acute toxicity	Category 2	Inhalation	
Acute toxicity	Category 4	Dermal	
Skin corrosion	Category 1B		
Serious eye damage/eye irritation	Category 1		
Respiratory sensitizer	Category 1		
Skin sensitizer	Category 1		
Germ cell mutagenicity	Category 1B		
Carcinogenicity	Category 1B		
Toxic to reproduction	Category 1B		
Target Organ Systemic Toxicant - Single exposure	Category 3		respiratory tract irritation
Target Organ Systemic Toxicant - Repeated exposure	Category 1		
Acute hazards to the aquatic environment	Category 1		
Chronic hazards to the aquatic environment	Category 1		

#### Hazard pictogram:



**Signal word:** Danger

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<b>Hazard statement(s):</b>	H330 Fatal if inhaled. H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H350 May cause cancer. H317 May cause an allergic skin reaction. H312 Harmful in contact with skin. H335 May cause respiratory irritation. H340 May cause genetic defects. H360 May damage fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. 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. P285 In case of inadequate ventilation wear respiratory protection.
<b>Response:</b>	P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
<b>Storage:</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
<b>Disposal:</b>	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 N - Dangerous for the environment

**Risk phrases:**

R25 Toxic if swallowed.  
R21 Also harmful in contact with skin.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.  
R42/43 May cause sensitization by inhalation and skin contact.  
R61 May cause harm to the unborn child.  
R60 May impair fertility.  
R46 May cause heritable genetic damage.  
R45 May cause cancer.  
R34 Causes burns.  
R26 Very toxic by inhalation.

**Safety phrases:**

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
 S53 Avoid exposure - obtain special instructions before use.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 S28 After contact with skin, wash immediately with plenty of water.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S23 Do not breathe gas/fumes/vapour/spray.  
 S60 This material and its container must be disposed of as hazardous waste.  
 S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**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

**Section 3. Composition / information on ingredients**

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Sodium dichromate	10588-01-9	10- 30 %
Nitric acid	7697-37-2	10- 30 %
sulphuric acid...%	7664-93-9	< 5 %
Remainder not hazardous including water~		30- 60 %

**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.  
 Immediately wash skin thoroughly with soap and water.  
 Get immediate medical attention.

**Eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
 Immediate medical treatment necessary.

**Inhalation:** Move to fresh air.  
 Keep warm and in a quiet place.  
 Immediate medical treatment necessary.

**First Aid facilities:** Eye wash and safety shower  
 Normal washroom facilities

**Most important symptoms caused by exposure:** Cause severe burns.  
 May cause cancer.

**Medical attention and special treatment:** Treat symptomatically.

### Section 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Improper extinguishing media:</b>	Water spray jet
<b>Combustion behaviour:</b>	Non-flammable (aqueous solution). In case of fire toxic gases can proceed after evaporation of water and further heating of the product.
<b>Decomposition products in case of fire::</b>	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Oxides of sulfur. Chromium oxide.
<b>Particular danger in case of fire::</b>	If evaporated to dryness, solid residue is an oxidizing agent and may cause spontaneous ignition of combustible materials.
<b>Special protective equipment for fire-fighters:</b>	Wear protective equipment. Wear self-contained breathing apparatus.
<b>Additional fire fighting advice:</b>	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
<b>Hazchem code:</b>	2X

### Section 6. Accidental release measures

<b>Personal precautions:</b>	Ensure adequate ventilation. Avoid skin and eye contact. Wear impervious gloves and chemical splash goggles. Keep unprotected persons away. Use personal protective equipment as described in Section 8.
<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	Soak up with inert absorbent. Dispose of contaminated material as waste according to Section 13.

### Section 7. Handling and storage

<b>Precautions for safe handling:</b>	Do not inhale vapors and fumes. Wear suitable protective clothing, safety glasses and gloves. Ensure that workrooms are adequately ventilated. Avoid contact with eyes, skin and clothing. Keep container tightly sealed.
<b>Conditions for safe storage:</b>	Store in sealed original container. Store in a cool, dry, well-ventilated area. Keep container tightly sealed.

**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)
CHROMIUM (VI) COMPOUNDS (AS CR), WATER SOLUBLE 10588-01-9			0.05	-	-	-	-
NITRIC ACID 7697-37-2		2	5.2	-	-	-	-
NITRIC ACID 7697-37-2		-	-	-	-	4	10
SULPHURIC ACID 7664-93-9			1	-	-	-	-
SULPHURIC ACID 7664-93-9		-	-	-	-	-	3

**Engineering controls:**

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.  
Provide local ventilation for prolonged use in a confined area.

**Eye protection:**

Wear chemical goggles.  
Wear face shield.

**Skin protection:**

Butyl rubber gloves.  
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.  
Wear long sleeved shirt and long trousers.

**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:** red  
clear  
**Odor:** None  
**Density:** 1.32 - 1.34 g/cm3

**Section 10. Stability and reactivity**

**Stability:** Stable under normal conditions of temperature and pressure.

**Conditions to avoid:** Do not allow chemical to dry in the presence of organic materials.

**Incompatible materials:**

Combustible materials.  
Reducing agents.  
Amines, strong alkalies  
Reacts with metals: Heat generated and hydrogen released.  
Organic materials.

**Hazardous decomposition products:**

Thermal decomposition can lead to release of irritating gases and vapors.  
  
Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.  
Oxides of sulfur.  
Chromium oxide.

**Section 11. Toxicological information**

**Health Effects:**

**Ingestion:** Toxic if swallowed.  
If ingested, severe burns of the mouth and throat may occur, as well as perforation of the esophagus and the stomach.

**Skin:** Harmful in contact with skin.  
Causes skin burns.  
Symptoms may include redness, burning, drying, cracking and skin burns.  
May cause sensitization by skin contact.

**Eyes:** This product causes eye burns.  
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:** Very toxic if inhaled.  
Severe respiratory tract irritation.  
Vapors may cause severe irritation with possible corrosive burns of the mucous membranes of the upper respiratory tract, conjunctivitis, nasal secretions, sneezing, a burning or tickling sensation in the nose and throat and retrosternal region, followed by cough, respiratory distress, tracheobronchitis, chemical pneumonitis and possible spasm of the vocal cords, and pulmonary edema.  
May cause allergic respiratory reaction.

**Chronic effects:** Long-term exposure can cause liver and kidney damage.

**Carcinogenicity:** Category 1B (Carcinogen), May cause cancer.

**Toxicity for reproduction:** Toxic to reproduction, category 1B, May damage fertility or the unborn child.

**Mutagenicity:** Category 1B (Mutagen), This product contains an ingredient which has been associated with mutagenicity effects.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Sodium dichromate 10588-01-9	LD50 Acute toxicity estimate (ATE) LC50 Acute toxicity estimate (ATE) LD50	123.5 mg/kg 0.099 mg/l  1,100 mg/kg < 2,000 mg/kg	oral inhalation inhalation dermal dermal	4 h	rat  rat  rabbit	OECD Guideline 401 (Acute Oral Toxicity) Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement OECD Guideline 402 (Acute Dermal Toxicity)
sulphuric acid...% 7664-93-9	LD50	2,140 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
sulphuric acid...% 7664-93-9	corrosive			

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
sulphuric acid...% 7664-93-9	corrosive			

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Sodium dichromate 10588-01-9	positive positive positive positive positive	in vitro mammalian chromosome aberration test mammalian cell gene mutation assay bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test  mammalian cell gene mutation assay	with and without with and without with and without with and without with and without		Chromosome Aberration Test Mammalian Cell Gene Mutation Assay Ames Test Cytogenicity Study  Mammalian Cell Gene Mutation Assay
Sodium dichromate 10588-01-9	positive ambiguous ambiguous	oral: drinking water oral: drinking water		mouse mouse	Micronucleus assay Micronucleus assay
Nitric acid 7697-37-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

**Section 12. Ecological information**



**General ecological information:** Do not empty into drains / surface water / ground water.

**Ecotoxicity:** Very toxic to aquatic life with long lasting effects.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Sodium dichromate 10588-01-9	LC50	13 - 100 mg/l	Fish	96 h		OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodium dichromate 10588-01-9	EC50	1.5 mg/l	Daphnia	24 h		OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium dichromate 10588-01-9	EC 50	75.5 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Nitric acid 7697-37-2	LC50	12.5 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Nitric acid 7697-37-2	EC50	4.6 mg/l	Daphnia	48 h	Ceriodaphnia dubia	EPA OPP 72-3 (Estuarine/Marine Fish, Mollusk, or Shrimp Acute Toxicity Test)
Nitric acid 7697-37-2	EC0	794 mg/l	Bacteria			
sulphuric acid...% 7664-93-9	LC50	> 16 - 28 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
sulphuric acid...% 7664-93-9	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
sulphuric acid...% 7664-93-9	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
sulphuric acid...% 7664-93-9	EC0	6,900 mg/l	Bacteria	24 h		

### Section 13. Disposal considerations

**Waste disposal of product:** Dispose of as hazardous waste in compliance with local and national regulations.  
Do not allow product to enter sewer or waterways.

**Recommended cleanser:** Clean the packaging with water.

**Disposal for uncleaned package:** Collection and delivery to recycling enterprise or other registered elimination institution.

### 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.: 2922

Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium dichromate,Nitric acid)  
 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.: 2922  
 Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium dichromate,Nitric acid)  
 Class or division: 8 (6.1)  
 Packing group: II  
 EmS: F-A ,S-B  
 Seawater pollutant: Marine pollutant

**Air transport IATA:**

UN no.: 2922  
 Proper shipping name: Corrosive liquid, toxic, n.o.s. (Sodium dichromate,Nitric acid)  
 Class or division: 8 (6.1)  
 Packing group: II  
 Packing instructions (passenger): 851  
 Packing instructions (cargo): 855

**Section 15. Regulatory information**

**SUSMP Poisons Schedule** 6

**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:** 13.06.2014

**Disclaimer:**

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