

Safety Data Sheet

according to Australia WHS and NZ HSNO Regulations

Printing date: 17 October 2017

Revision: 17 October 2017

1 Identification

- **Product identifier**
- **Trade name:** Aluminum Deoxidizer
- **Article number:** No other identifiers
- **Application of the substance / the mixture:** Metal surface treatment
- **Uses advised against:** No further relevant information available.

- **Details of the supplier of the Safety Data Sheet**

- **Manufacturer/Supplier:**
California Custom Products Aust P/L
PO Box 1474 Beenleigh Qld 4207 Australia.
07 3209 9060
sales@californiacustom.com.au



- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

Emergencies within Australia - 131126 (NSW Poison Control Centre)
Emergencies within New Zealand - 0800 764 766 (National Poison Control Centre)

2 Hazard(s) Identification

- **Classification (Australia, New Zealand)**
Australia NOHSC – Hazardous Substance (Classified according to Worksafe Australia NOHSC 2011 National Code of Practice)
New Zealand HSNO - Hazardous (Classified according to the Minimum Degrees of Hazard Regulations 2001)
- **Hazard statements (New Zealand HSNO Classification)**
HSNO 6.1D Oral Tox. 4 H302 Harmful if swallowed.
HSNO 6.1D Skin Tox. 4 H312 Harmful in contact with skin.
HSNO 6.1D Inh. Tox. 4 H332 Harmful if inhaled.
HSNO 6.9A STOT SE1 H370 Causes damage to organs.
HSNO 6.3A Skin Irr. 2 H315 Causes skin irritation.
HSNO 6.4A Eye Irrit. 2A H319 Causes serious eye irritation.
HSNO 9.3B Ecotoxic to terrestrial vertebrates H432 Toxic to terrestrial vertebrates.
- **Hazard pictograms**
GHS08 pictogram only required for New Zealand.



GHS07 GHS08

- **Signal word** Danger
- **Hazard statements**
The following Hazard Statements are only applicable to New Zealand, and are not applicable to Australia:
H370.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

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H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H370 Causes damage to organs. Route of exposure: Oral, Inhalation.

Precautionary statements

The following Precautionary Statements are applicable only to New Zealand and not to Australia: P308+P311a.




P261 Avoid breathing mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.
 P321 Specific treatment - after skin contact: Rub in Calcium gluconate solution or Calcium gluconate gel immediately.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**

- **Components:**

7664-39-3	hydrofluoric acid	<1%
	 Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 2, H330  STOT SE 1, H370  Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	

- **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

4 First Aid Measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.
 In case of irregular breathing or respiratory arrest provide artificial respiration.

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- **After skin contact:**
Immediately remove any clothing soiled by the product.
Immediately rinse with water.
Rub in Ca-gluconate solution or Ca-gluconate gel immediately.
Launder contaminated clothing before re-use.
If skin irritation is experienced, consult a doctor.
Seek immediate medical help for blistering or open wounds.
- **After eye contact:**
Protect unharmed eye.
Rinse opened eye for several minutes under running water.
Remove contact lenses if worn.
Seek immediate medical advice.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Most important symptoms and effects, both acute and delayed**
Breathing difficulty
Coughing
Nausea in case of ingestion.
Gastric or intestinal disorders.
Irritating to eyes and skin.
- **Hazards:**
Harmful if swallowed, in contact with skin or if inhaled.
Danger of disturbed cardiac rhythm.
Danger of circulatory collapse.
Danger of convulsion.
- **Indication of any immediate medical attention and special treatment needed**
Contains Hydrofluoric Acid. Consult literature for specific antidotes.
Medical supervision for at least 48 hours.
Monitor circulation.
If necessary oxygen respiration treatment.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
The product is not flammable.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

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6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Methods and material for containment and cleaning up**

Use limestone to neutralize and absorb spill.

Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- **Handling:**

- **Precautions for safe handling**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Keep out of reach of children.

Avoid contact with the eyes and skin.

Avoid breathing mist/vapours/spray.

- **Information about fire - and explosion protection:** Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

- **Further information about storage conditions:** Do not freeze.

- **Specific end use(s)** No further relevant information available.

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8 Exposure controls and personal protection

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7664-39-3 hydrofluoric acid

WES (Australia)	Peak limitation: 2.6 mg/m ³ , 3 ppm
PEL (USA)	Long-term value: 3 ppm as F
REL (USA)	Long-term value: 2.5 mg/m ³ , 3 ppm Peak limitation: 5* mg/m ³ , 6* ppm *15-min, as F
TLV (USA)	Long-term value: 0.41 mg/m ³ , 0.5 ppm Peak limitation: 1.64 mg/m ³ , 2 ppm as F; Skin, BEI
WES (New Zealand)	Peak limitation: 2.6 mg/m ³ , 3 ppm

· **DNELs:** No further relevant information available.

· **PNECs:** No further relevant information available.

· Ingredients with biological limit values:

7664-39-3 hydrofluoric acid

BEI (USA)	3 mg/g creatinine Medium: urine Time: prior to shift Parameter: Fluorides (background, nonspecific)
	10 mg/g creatinine Medium: urine Time: end of shift Parameter: Fluorides (background, nonspecific)

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

For large spills, respiratory protection may be advisable.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **For the permanent contact gloves made of the following materials are suitable:**

Fluorocarbon rubber (Viton)

- **Eye protection:**



Safety glasses

- **Body protection:** Impervious protective clothing
- **Limitation and supervision of exposure into the environment:**
Avoid release to the environment.
- **Risk management measures:** See Section 7 for additional information.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **Appearance**

Form: Liquid

Colour: Green

- **Odour:** Pungent

- **Odour threshold:** Not determined.

- **pH-value:** Acidic

- **Melting point/freezing point:** Not determined.

- **Initial boiling point and boiling range:** Not determined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not applicable.

- **Auto/Self-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

Lower: Not determined.

Upper: Not determined.

- **Oxidising properties:** Non-oxidising.

- **Vapour pressure:** Not determined.

- **Density:**

Relative density: Not determined.

Vapour density: Not determined.

Evaporation rate: Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

- **Partition coefficient: n-octanol/water:** Not determined.

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- **Viscosity**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Other information** No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Reacts with oxidising agents.
Reacts with alkali (lyes).
Reacts with organic substances.
Develops toxic gases/fumes.
- **Conditions to avoid** Do not allow product to freeze.
- **Incompatible materials**
Alkalis
Oxidisers
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Hydrogen fluoride
Danger of toxic fluorine based pyrolysis products.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation:** Irritating effect.
- **Respiratory or skin sensitisation:** No sensitising effects known.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **Probable routes of exposure:**
Eye contact.
Skin contact.
- **Acute effects (acute toxicity, irritation and corrosivity):**
Harmful if swallowed, in contact with skin or if inhaled.
Irritating to eyes and skin.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.

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- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|----------------------|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADG, IMDG, IATA | <p>Not Regulated</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT, ADG, IMDG, IATA | <p>Not Regulated</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADG, IMDG, IATA · Class | <p>Not Regulated</p> |

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· **Packing group**
· DOT, ADG, IMDG, IATA Not Regulated

· **Environmental hazards:**
· Marine pollutant: No

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **Australia**

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

7664-39-3 hydrofluoric acid

S5, S6, S7

· **New Zealand Inventory of Chemicals (NZIOC)**

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H290 May be corrosive to metals.

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H370 Causes damage to organs. Route of exposure: Oral, Inhalation.

· **Abbreviations and acronyms:**

ADG: National Transport Commission Australian Dangerous Goods Code

International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulable, Toxique
vPvB: very Persistent and very Bioaccumulative
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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