



Safety Data Sheet

Page 1 of 8

BONDERITE M-CR 1132 AERO

SDS No. : 555556

V001.0

Revision: 14.03.2019

printing date: 15.04.2019

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BONDERITE M-CR 1132 AERO

Intended use: Chromating Products for Metals

Supplier:
Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
New Zealand

Phone: +64 (9) 272-6710

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HSNO Classification:

6.7A Class 6 - Toxicity, Subclass 6.7 - Carcinogen, Hazard Classification A
Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification B

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Carcinogenicity	Category 1B
Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

Hazard pictogram:



Signal word: Danger

Hazard statement(s):	H350 May cause cancer. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P273 Avoid release to the environment. P281 Use personal protective equipment as required.
Response:	P308+P313 IF exposed or concerned: Get medical advice/attention.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Dichromium tris(chromate)	24613-89-6	< 1 %
non hazardous ingredients~		60- 100 %

SECTION 4 FIRST AID MEASURES

Ingestion:	Get immediate medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. Seek medical advice. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Skin:	For skin contact, flush with large amounts of water. Seek immediate medical attention. Remove contaminated clothing and footwear.
Eyes:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Inhalation:	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Medical attention and special treatment:	Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use media appropriate for surrounding material.

Decomposition products in case of fire:: Irritating and toxic gases or fumes may be released during a fire.

Particular danger in case of fire:: This product is an aqueous mixture which will not burn.

Special protective equipment for fire-fighters: Wear full protective clothing.
Wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes.
Keep unprotected persons away.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Take up with liquid-absorbing material (sand).
Dispose of contaminated material as waste according to Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Do not reuse the empty container.
For industrial use only.

Conditions for safe storage: Store above 40 °F (5 °C).
Thaw and mix thoroughly if frozen.

Suitable materials with product: Polyethylene containers
Unsuitable materials with product: Glass
Steel container
Fiber

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
CHROMIUM (VI) COMPOUNDS, AS CR, WATER SOLUBLE 24613-89-6			0.05	-	-	-
CHROMIUM (VI) COMPOUNDS, AS CR, WATER INSOLUBLE			0.05	-	-	-

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.
Eye protection:	Wear chemical goggles; face shield (if splashing is possible).
Skin protection:	Chemical resistant, impermeable gloves. Suitable protective gloves. Use of impervious apron and boots are recommended. 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:	Yellow green liquid
Odor:	mild
pH:	2.1 - 2.5
Specific gravity:	1.00 - 1.01
Boiling point:	> 100 °C (> 212 °F)
Flash point:	Not applicable
Solubility in water:	Complete

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Do not allow chemical to dry in the presence of organic materials.
Incompatible materials:	Avoid contact with organic materials, oils, greases, and any oxidizable materials.
Hazardous decomposition products:	None identified.
Hazardous polymerization:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:**Ingestion:**

May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

Skin:

Can cause mild skin irritation.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Eyes:

May cause mild irritation

Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation:

May cause irritation to nose and throat.

Carcinogenicity:

Category 1B (Carcinogen), May cause cancer.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Dichromium tris(chromate) 24613-89-6	Acute toxicity estimate (ATE) LD50 LC50 LD50	100 mg/kg 50 - 300 mg/kg > 2,000 mg/kg	oral oral inhalation dermal	4 h	rat rat rat	Expert judgement OECD Guideline 423 (Acute Oral toxicity) not specified OECD Guideline 402 (Acute Dermal Toxicity)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Dichromium tris(chromate) 24613-89-6	irritating		rabbit	not specified

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Dichromium tris(chromate) 24613-89-6	positive	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: Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Dichromium tris(chromate) 24613-89-6	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton- Buchanan (Teleostei, Cyprinidae)])
Dichromium tris(chromate) 24613-89-6	NOEC	4.01 µg/l	Algae	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Dichromium tris(chromate) 24613-89-6	EC50	76.14 µg/l	Algae	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Dichromium tris(chromate) 24613-89-6	EC 50	> 10,000 mg/l	Bacteria	3 h		ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Waste disposal with the approval of the responsible local authority.

Disposal for uncleaned package: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

SECTION 14. TRANSPORT INFORMATION

Land Transport:

UN no.: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Chromium(III)-chromate)
Class or division: 9
Packing group: III

Marine transport IMDG:

UN no.: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Chromium(III)-chromate)
Class or division: 9
Packing group: III
EmS: F-A ,S-F
Seawater pollutant: Marine pollutant

Air transport IATA:

UN no.:	3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Chromium(III)-chromate)
Class or division:	9
Packing group:	III
Packing instructions (passenger)	964
Packing instructions (cargo)	964

Further information for transport:

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

SECTION 15. REGULATORY INFORMATION

HSNO Approval Number: Group standard HSR002616

NZIoC: Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue: First issue. involved chapters: 1 - 16

Disclaimer:

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