



Safety Data Sheet

Page 1 of 6

BONDERITE M-CR 1201 AERO known as ALODINE 1201

SDS No. : 191686

V001.3

Revision: 25.12.2025

printing date: 26.01.2026

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BONDERITE M-CR 1201 AERO known as ALODINE 1201

Intended use: Chromating Products for Metals

Supplier:
Henkel New Zealand Ltd
2 Allens Rd
East Tamaki
Auckland, 2013
New Zealand
Phone: +64 (9) 272-6710

Emergency Telephone for Chemical Accidents: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).
Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2A	
Skin irritation	Category 2	
Serious eye damage/eye irritation	Category 1	
Respiratory sensitizer	Category 1	
Skin sensitizer	Category 1	
Germ cell mutagenicity	Category 1B	
Carcinogenicity	Category 1A	
Target Organ Systemic Toxicant - Single exposure	Category 3	respiratory tract irritation
Target Organ Systemic Toxicant - Repeated exposure	Category 2	
Chronic hazards to the aquatic environment	Category 3	

Hazard pictogram:



Signal word: Danger

Hazard statement(s):	H315 Causes skin irritation. H319 Causes serious eye irritation. H315 Causes skin irritation. H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. 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. P260 Do not breathe mist/vapours. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 [In case of inadequate ventilation] wear respiratory protection.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. 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 advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. 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
Chromic acid	7738-94-5	1- < 3 %
Non-hazardous ingredients~		remainder up to 100%

SECTION 4 FIRST AID MEASURES

Ingestion:	Get immediate medical attention. DO NOT induce vomiting unless directed to do so by medical personnel.
Skin:	Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention. Treat contaminated skin with Ca-gluconate gel (burn jelly).
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.
First Aid facilities:	Eye wash and safety shower

Medical attention and special treatment: Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use media appropriate for surrounding material.

Particular danger in case of fire: Formation of toxic gases is possible during heating or in fires.

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

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid skin and eye contact.
Wear protective equipment.
See advice in section 8

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

Clean-up methods: Soak up with inert absorbent.
Dispose of contaminated material as waste according to Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Avoid breathing vapors or mists of this product.
Use only with adequate ventilation.
Launder work clothes frequently.
Do not store or consume food, drink, or tobacco products in areas where they may become contaminated with this material.
Do not take internally.
Clothing or other material wet with this product and allowed to dry may become flammable.
For industrial use only.

Conditions for safe storage: Store in a cool, dry, well-ventilated area.
Keep container tightly sealed.

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 (≥500g/L) 7738-94-5		-	-	-		0.0005
Chromium (VI) compounds, as Cr, Water soluble (≥500g/L)			0.00002	-	-	-

Biological Exposure Indices:
None

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 safety glasses; chemical goggles (if splashing is possible).
Skin protection:	Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended. Butyl rubber gloves.
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:	Orange Liquid
Odor:	Odourless / Odorless
pH:	< 2
Specific gravity:	1.00 - 1.02
Boiling point:	> 100 °C (> 212 °F)
Flash point:	> 100 °C (> 212 °F)
Solubility in water:	Aqueous solution Complete

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	None if used for intended purpose.
Incompatible materials:	Avoid contact with organic materials, oils, greases, and any oxidizable materials. This product may react with strong alkalies.
Hazardous decomposition products:	In case of fire toxic gases can be released.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:	
Ingestion:	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin:	Causes skin irritation. May cause an allergic skin reaction.
Eyes:	Causes serious eye damage.
Inhalation:	Causes respiratory tract irritation. May cause allergic respiratory reaction.
Aggravated med. condition:	Eye, skin, and respiratory disorders.
Carcinogenicity:	Category 1A (Carcinogen), May cause cancer.
Skin irritation:	Result: Category 2 (irritant)
Toxicity data:	No data available.

SECTION 12. ECOLOGICAL INFORMATION

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

Ecotoxicity: H412 Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Chromic acid 7738-94-5	LC50	44.25 mg/l	Fish	96 h	Carassius auratus	OECD Guideline 203 (Fish, Acute Toxicity Test) not specified
Chromic acid 7738-94-5	NOEC	0.114 mg/l	Fish	60 h	Oncorhynchus mykiss	
Chromic acid 7738-94-5	EC50	1.18 mg/l	Daphnia	24 h	Daphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Chromic acid 7738-94-5	EC50	0.29 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Chromic acid 7738-94-5	EC10	0.071 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

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

Dangerous Goods information:

Land Transport:
Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: HSR002616
NZIoC: Compliant for NZIoC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: CAS: Chemical Abstracts Service
GHS: Globally Harmonized System
HSNO: Hazardous Substances and New Organisms
IATA : International Air Transport Association – Dangerous Goods Regulations
IMDG: International Maritime Dangerous Goods code
LC 50: Lethal Concentration 50%
LD 50: Lethal Dose 50%
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: 25.02.2021

Disclaimer:

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