

SDS

SAFETY DATA SHEET

Metalier Patina M16



13 SEPTEMBER 2021

1 PRODUCT IDENTIFIER AND COMPANY INFORMATION

Product Identifier	MA0M16
Product Name	Metalier Patina M16
Other means of identification UN Number	UN3289
Recommended Use of the chemical and restrictions on use	Recommended for Industrial and/or Professional use only

Details of the supplier of the safety data sheet

Distributor:

Metalier International Ltd
305/150 Karangahape Road
CBD
Auckland 1010
New Zealand

For further information, please contact:

Contact point +64 9 376 7099
E-mail address office@metaliercoatings.com
Emergency telephone number +64 21 732 746

2 HAZARDS IDENTIFICATION

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Classified as Dangerous Goods according to NZS 5433.

Hazard description: Class 6.1 - 8
Toxic Liquid, Corrosive Inorganic, N.O.S.
PG II, UN3289

HSNO CLASS

Class 6 Toxicity

6.1B (Dermal) Acutely Toxic
6.1D (Oral) Acutely Toxic
6.6B Suspected human mutagens

6.9B (oral) Harmful to human target organs or systems

Class 8 Corrosive

8.2C Corrosive to dermal tissue
8.3A Corrosive to ocular tissue

Class 9 Ecotoxicity

9.1C Substance that are harmful in the aquatic environment.
9.3C Substance that are harmful to the terrestrial vertebrates.

EPA Group Standard

HSR002510 – Additive, process chemicals and raw materials (Toxic[6.1], Corrosive) group standard 2020

GHS Classification

Hazard Pictogram



Signal word: Danger

Hazard class

Dermal Acute Toxicity: Dermal Category 2
Acute Toxicity: Oral Category 4
Germ cell Mutagenicity Category 2
Specific Target organ toxicity Single exposure Category 2
Skin Corrosion/irritation Category 1C
serious eye damage/eye irritation Category 1
Hazardous to the Aquatic environment Acute hazard Category 3
Ecotoxic to Terrestrial Vertebrates

Hazard statement(s)

H302 Harmful if swallowed
H310 Fatal in contact with skin
H341 Suspected of causing generic defects
H371 May cause damage to organs
H314 Causes skin Burns and eye damage.
H318 Causes serious eye damage
H402 Harmful to aquatic life
H433 Harmful to Terrestrial Vertebrates

Precautionary Statement(s)Prevention

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children
P103 read labels before use.
P264 Wash the hands and other exposed parts of the body, thoroughly after Handling.
P270 Do not eat, drink or smoke when using this product.
P101 If medical advice is needed, have product container or label at hand.
P262 Do not get in eyes, on skin, or on clothing
P264 Wash affected body parts thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/protective clothing/eye protection/face Protection.
P201 Obtain special instructions before use
PPS INDUSTRIES LIMITED
Issue date 13/09/2021 Rev5 HSNO Approved Code of Practice: 3 of 9
Preparation of Safety Data Sheets
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash the affected body parts thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash the affected body parts thoroughly after handling.
P280 wear protective gloves/protective clothing/eye protection/face protection.
P280 Wear protective gloves/protective clothing/eye protection/face protection
P273 Avoid release to the environment
P103 Read label before use
P273 Avoid release to the environment

Precautionary Statement(S) Response

P301+P310 If swallowed: Immediately call poison centre or doctor.
Rinse
Mouth with water.
P302+P350 If on skin: Gently wash with plenty of soap and water.
Immediately Call a poison centre or doctor
P322 For specific measures read the Label.
P361 Take off immediately all the contaminated cloths
P363 wash contaminated clothing before reuse.
P301+P330+P331 If swallowed: Rinse mouth. Do not induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower)
P363+P304+P340 Wash contaminated clothing before reuse. If inhaled: Remove victim to fresh Air and keep at rest in a position comfortable for breathing.
P310 Immediately call a poison centre or a doctor.
P321 For specific treatment read the Label.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove Contact Lenses if present and easy to do. Continue rinsing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Lenses if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P308+P313 If exposed or concerned: Get medical advice/attention.
P309+P311 If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Precautionary Statement(S)Storage

P405 Store Locked up

Precautionary Statement(S) Disposal

P501 Dispose of contents/container to an appropriate treatment and Disposal Facility in accordance with applicable laws and regulations.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Concentration	Cas
Hydrochloric Acid	0.2 - 0.4%	7647-01-0
Selenium Dioxide	2-5% w/v	7446-08-4
Phosphoric Acid	4-8% w/v	7664-38-2
Copper Sulphate	1-3% w/v	7758-99-8
Zinc Sulphate	1-3% w/v	7733-02-0
Ammonium Molybdate	1-4% w/v	12054-85-2

4 FIRST AID MEASURES

After inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

After skin contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before re-use. Thoroughly clean shoes before re-use.

After eye contact

Immediately flush eyes with plenty of water for at least 15 minutes lifting lower and upper eyelids occasionally. Get medical attention immediately.

After Ingestion

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Fire

Not combustible

Explosion

Can react with chemically reactive metals such as aluminium, zinc, magnesium, copper etc. to release hydrogen gas that can form explosive mixtures with air.

Contact with oxidisable substances may cause extremely violent combustion.

Fire Extinguishing Media

Flood with large amounts of water. Water spray may be used to keep fire-exposed containers cool. Do not allow water runoff to enter sewer waterways.

Special Information

Solution process causes formation of corrosive mists. Hot or molten material can react violently with water. In the event of a fire, wear full protective clothing and approved self-contained breathing apparatus with full facemask operated in the pressure demand or other positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Measures for environmental protection

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Sweep up and containerise for reclamation or disposal.

Ensure adequate ventilation.

Keep away from ignition sources.

Additional information

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

Information for safe handling

Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels.
Wash hands, face, forearms and neck when exiting restricted areas.
Shower, dispose of outer clothing, change to clean garments at the end of the day.
Wash hands before eating and do not eat, drink or smoke in workplace.

STORAGE

Information about storage in one common storage facility

Protect against physical damage.
Do not store together with oxidizing materials.
Avoid storage on wooden floors.
Remove and dispose of any spilled chemical; do not return to original containers.

Further information about storage conditions

Keep container tightly sealed.
Store in cool, dry conditions in well-sealed containers.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Ventilation system

A system of local and/or general exhaust is recommended to keep employees below the airborne exposure limits.
Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.

Breathing equipment

Use suitable respirator when high concentrations are present.

Eye protection

Use chemical safety goggles and/or full-face shields where dusting or splashing of solutions is possible.
Maintain eye wash fountain and quick-drench facilities in work area

Skin protection

Wear impervious protective clothing including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Form	Liquid
Colour	Colourless
Odour	Accidic
Change in conditions	
Melting point/Melting range	Not determined
Boiling point/Boiling range	Not determined
Sublimation temperature/start	Not determined
Flash point	Not determined
Flammability (solid, gaseous)	Not flammable
Ignition temperature	Not determined
Decomposition temperature	Not determined

Danger of explosion	Product is not explosive
Density at 20 degrees C	2.2 g/cm ³
PH	1.3
Solubility in / Miscibility with Water at 20 degrees C	100%

10 STABILITY AND REACTIVITY

Stability	The product is stable
Instability temperature	Not available
Conditions of Instability	Water. Moisture, incompatible materials.

Incompatibility with various substances

Reactive with oxidizing agents.
Slightly reactive to reactive with moisture

Corrosivity	Not available
Polymerization	Will not occur

11 TOXICOLOGICAL INFORMATION

Routes of entry	Absorbed through skin, eye contact, inhalation, ingestion.
Toxicity to Animals	
LC50 / LD50	Not available
Chronic effects on humans	May cause damage to the following organs: the nervous system, liver, central nervous system (CNS)
Other toxic effects on humans	Very hazardous in case of skin contact (irritant), of ingestion Hazardous in case of inhalation (lung corrosive) Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive)
Special remarks on toxicity to animals	Not available
Special remarks on chronic effects on humans	Not available
Special remarks on other toxic effects on humans	Acute and chronic potential health effects
Skin	Causes skin irritation and/or burns depending on the severity of the exposure.
Eyes	Causes eye irritation and/or burns depending on the severity of the exposure. Eye contact may result in permanent damage and complete vision loss.
Inhalation	May cause respiratory tract irritation with coughing, wheezing, laryngitis. May also cause shortness of breath, headache, nausea, vomiting, inflammation, bronchitis, pulmonary edema and chemical pneumonitis.
Ingestion	Swallowing large amounts may be harmful or fatal. Over-ingestion of selenium or selenium compounds may cause gastrointestinal/digestive tract distress with nausea, vomiting, diarrhea, vasopharyngeal irritation, garlic-like odour of the breath and sweat, metallic taste, damage to mouth, throat and esophagus. While selenium in the diet is essential for proper nutrition, long-term ingestion of high amounts may cause gastrointestinal/digestive tract and nervous system disturbances (giddiness, lassitude, irritability, drowsiness, excessive fatigue), breathing difficulty (dyspnea), skin sores and yellowish skin, pallor, loss of hair and nails, and decayed or spotted teeth. In some individuals, nervous system effects may progress to numbness, convulsions and paralysis. Overexposure may also cause anemia, weight loss, lumbar pain, kidney damage and liver damage. Acute selenium poisoning is potentially lethal due to cardiac failure and/or pulmonary edema.

12 ECOLOGICAL INFORMATION

GENERAL NOTES

Environmental Fate

When released into the soil, this material may leach into groundwater. When released into water, this material is not expected to evaporate or biodegrade significantly. This material may bioaccumulate to some extent. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

13 DISPOSAL CONSIDERATIONS

PRODUCT

Recommendation

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a local council approved waste facility. Processing, use or contamination of this product may change the waste management options.

UNCLEANED PACKAGING

Recommendation

Dispose of container and unused contents in accordance with local council requirements.

14 TRANSPORT INFORMATION

Hazard class	6.1 - 8
Identification number	UN3289
Packing Group	II
Hazchem	2X
Proper shipping name (technical name)	Toxic Liquid, CORROSIVE, Inorganic N.O.S.

15 REGULATIONS

HSNO Class

Class 6 Toxicity

6.1B(dermal) Acutely Toxic.

6.1D(oral) Acutely Toxic.

6.6B Suspected human mutagens.

6.9B(oral) Harmful to human target organs or systems

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8.2C Corrosive to dermal tissue.

8.3A Corrosive to ocular tissue.

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EPA Group Standard

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Certified Handler : Applicable, 6.1B

Tracking : Applicable, 6.1B

16 OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with the Safety Data Sheet, or in combination with any other product or person, is the

End of Safety Data