

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: InnoMetal Black Patina

Other names: -

MSDS name: EN_InnoMetal_MSDS_Black Patina

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Application of the substance / the mixture

Paint

1.2.2. Applications advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

InnoMetal GmbH

Einsteinstr. 12

D-33104 Paderborn

Fon: +49 (0)221 9582011

info@innometal.de

1.4. Emergency telephone number

Monday - Friday, 9:00 am - 4:00 pm

+49 (0)221 958 2011

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute tox., category 4 , Oral H302: Harmful if swallowed

Eye irrit., category 2 H319: Causes serious eye irritation

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



N

T

R 23/25 Toxic by inhalation/if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the environment

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS06 GHS08 GHS09

Signal word: Danger

Hazard statements:

H301 Toxic if swallowed

H331 Toxic if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effect

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P321 Specific treatment (see on label)

2.3. Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components:

CAS	EINECS	Chemical name	from %	till %	Hazard pictograms	R phrases	Index Number
7783-00-8	231-974-7	Selenious acid, solution	50	99	T, N	R: 23/25, 33, 50/53	034-002-00-8

Labelling (CLP):

CAS	EINECS	Chemical name	Hazard pictograms	Signal word	Hazard statements
7783-00-8	231-974-7	Selenious acid, solution	GHS06, GHS08, GHS09	Danger	H: 301, 331, 373, 410

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Symptoms may be delayed.

After inhalation: Remove from exposure. Ensure supply of fresh air. If breathing stops or shows signs of failing, give artificial respiration. Obtain medical attention urgently. Keep warm and rest. If there is difficulty in breathing, give oxygen. Do not use mouth to mouth ventilation.

After skin contact: Clean with soap and water. Remove contaminated clothing as washing proceeds. Contaminated clothing should be washed or dry-cleaned before re-use.

After eye contact: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention.

After swallowing: Seek medical treatment immediately.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Not combustible. Select extinguishing agent appropriate to other materials involved.

Keep containers and surroundings cool with water spray.

For safety reasons unsuitable extinguishing agents:

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Has a caustic effect.

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Fire fighters should wear self-contained positive pressure breathing procedures apparatus (SCBA) and full turnout gear.

Protection of fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Remove persons to safety.

Avoid dust formation. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not allow to enter sewers/surface or ground water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Advise authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation. Pick up mechanically. Send in suitable containers for recovery or disposal.

6.4. 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use in well-ventilated area. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available. Product is hygroscopic.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Storage area should be: cool, under cover, well ventilated and dry.

Store away from sources of heat or ignition.

Water contamination must be avoided.

Do not store with food stuffs.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:	
7783-00-8 Selenious acid solution	
AGW (Deutschland)	0,05E mg/m ³ 1(l);DFG,Y
MAK	0,02 mg·m ⁻³
TWA	0.1 mg/m ³

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Respiratory protection: If workplace exposure limits are exceeded, a respirations protection approved for this particular job must be worn. Short term: filter apparatus, Filter P3.

Protection of hands:



Protective gloves

Eye protection: Tightly sealed goggles.

Body protection: Protective work clothing.

General protective and hygienic measures: Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid

Colour: Blue

Odour: characteristic

PH-value: < 2.0

Change in condition

Melting point/Melting range: Not applicable.

Boiling point/Boiling range: Not determined

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined

Ignition temperature: Not determined

Decomposition temperature: Not applicable

Self-igniting: Product is not self-igniting.

Danger of explosion: No explosion danger.

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapour density: Not determined

Density at 20 °C: > 3,004 g/cm⁻³

Bulk density: Not determined.

Evaporation rate: Not applicable

Solubility in / Miscibility with water: Completely soluble.

Partition coefficient (n-Octanol/water): Not applicable

Viscosity: Not applicable.

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition if used and stored according to specifications

10.3. Possibility of hazardous reactions

No further relevant information available.

10.4. Conditions to avoid

Strong heating.

10.5. Incompatible materials

Acids

10.6. Hazardous decomposition products

No hazardous decomposition products known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Eye irritation: Very hazardous in case of eye contact (irritant). Has a caustic effect.

Ingestion/Inhalation: Harmful if swallowed or inhaled.

Acute toxicity: LD50: Oral-rat 25 mg/kg

LC50: Not available.

Further information: The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

LC50 aq. (96h Se) >10 mg/L (Fish)

Very toxic for fishes.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bio-accumulative potential

No further relevant information available.

12.4. Mobility in soil

Remark: Do not allow product to reach ground water, water course or sewage system.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation: Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Uncleaned packaging:

Recommendation: cleansing may be taken for refuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1. UN number

ADR, IMDG, IATA: 3440

14.2. UN proper shipping name

ADR: 3440 SELENVERBINDUNG, FLÜSSIG, N.A.G. (Selenige Säure Lösung)

IMDG, IATA: 3440 SELENIUM COMPOUND, LIQUID, N.O.S. (Selenious Acid Solution)

14.3. Transport hazard class(es)

ADR:



Klasse: 6.1 SELENVERBINDUNG, FLÜSSIG, N.A.G.
Gefahrzettel: 6.1

IMDG, IATA:



Class: 6.1 SELENIUM COMPOUND, LIQUID, N.O.S.

14.4. Packing group

ADR, IMDG, IATA: II

14.5. Environmental hazards

Marine pollutant: No.

Special labelling: fish and tree.

14.6. Special precautions for user

Kemler number: 60

EMS number: F-A S-A

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities: (LQ) LQ 18

Transport category: 2

Tunnel restriction code D/E

UN "Model Regulation": UN3440, SELENIUM COMPOUND, LIQUID, N.O.S. (selenious acid solution), 6.1, II

.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Water hazard class: Water hazard class 3 (Assessment by list): very hazardous for water.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

16.1. Wording of R und H phrases

Relevant phrases

(serves as the explanation for only the hazard and risk phrases noted in the MSDS, e.g. in chapter 3)

H301 Toxic if swallowed

H331 Toxic if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effect

R 23/25 Toxic by inhalation/if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the environment

16.2. Further information

The information provided in this material safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrant or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.