

# Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet

Date / Revised: 07.12.2023

Version: 1.0

Product: **METALL SPRAY 181P**

(30721485/SDS\_GEN\_AU/EN)

Date of print: 10.12.2023

## 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**METALL SPRAY 181P**

Recommended use: Detergents

Not recommended use: Uses other than recommended

Manufacturer/supplier:

Chemetall (Australasia) Pty Ltd

ABN 25 074 869 015

Head Office: 17 Turbo Drive, Bayswater North, Vic 3153, Australia

Freecall: 1800 008 738

Telephone: +61 3 9729 6253

Telefax number: +61 3 9720 1711

E-mail address: customer.service.au@basf.com

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]

BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat.4 (oral)

Skin corrosion/irritation: Cat.1C

Serious eye damage/eye irritation: Cat.1

Specific target organ toxicity — single exposure: Cat.3 (irritating to respiratory system)

Hazardous to the aquatic environment - acute: Cat.2

Corrosive to metals: Cat.1

Label elements and precautionary statement:

## Pictogram:



## Signal Word:

Danger

## Hazard Statement:

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life.

## Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P264	Wash contaminated body parts thoroughly after handling.
P234	Keep only in original packaging.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe dust or mist.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

## Precautionary Statements (Response):

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P390	Absorb spillage to prevent material damage.
P363	Wash contaminated clothing before reuse.
P330	Rinse mouth.
P310	Immediately call a POISON CENTER or physician.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P406	Store in corrosive resistant container with a resistant inner liner.
P405	Store locked up.

## Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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## Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: mixture

inorganic compounds, organic compounds, inorganic salts

#### Hazardous ingredients

sodium carbonate

Content (W/W):  $\geq 30\%$  -  $< 50\%$

CAS Number: 497-19-8

Acute Tox.: Cat. 5 (oral)

Eye Dam./Irrit.: Cat. 2B

Sodium metasilicate pentahydrate

Content (W/W):  $\geq 30\%$  -  $< 50\%$

CAS Number: 10213-79-3

Met. Corr.: Cat. 1

Acute Tox.: Cat. 4 (oral)

Eye Dam./Irrit.: Cat. 1

STOT SE: Cat. 3 (irr. to respiratory syst.)

Skin Corr./Irrit.: Cat. 1C

sodium nitrite

Content (W/W):  $\geq 5\%$  -  $< 7\%$

CAS Number: 7632-00-0

Ox. Sol.: Cat. 2

Acute Tox.: Cat. 3 (oral)

Eye Dam./Irrit.: Cat. 2A

Aquatic Acute: Cat. 1

M-factor acute: 1

PINE OIL

Content (W/W):  $\geq 0.5\%$  -  $< 1\%$

CAS Number: 8002-09-3

Asp. Tox.: Cat. 1

Flam. Liq.: Cat. 3

Skin Corr./Irrit.: Cat. 2

Skin Sens.: Cat. 1

Aquatic Chronic: Cat. 2

Eye Dam./Irrit.: Cat. 2A

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### 4. First-Aid Measures

General advice:

Keep warm, calm and covered up. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

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**On skin contact:**

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

**On contact with eyes:**

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

**On ingestion:**

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

**Note to physician:**

Symptoms: allergic symptoms, Symptoms can appear later., irritation of respiratory tract, skin corrosion, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Dusts may cause mechanical irritation to eyes. Danger of methaemoglobin formation. May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

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## 5. Fire-Fighting Measures

**Suitable extinguishing media:**

carbon dioxide, alcohol-resistant foam, dry powder, water spray

**Unsuitable extinguishing media for safety reasons:**

water jet

**Specific hazards:**

nitrogen oxides

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

**Special protective equipment:**

Appropriate breathing apparatus may be required.

**Further information:**

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 6. Accidental Release Measures

**Personal precautions:**

Do not inhale dusts. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product

handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

Environmental precautions:

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods for cleaning up or taking up:

Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

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## 7. Handling and Storage

### Handling

Avoid dust formation. Protect against moisture. Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

### Storage

Segregate from ammonium salts. Segregate from organic substances. Keep away from amines, oxidizing agents, from strongly alkaline and strongly acid materials. Segregate from combustible materials. Segregate from reducing agents.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Protect against moisture. Avoid direct sunlight. Store only in corrosion proof containers. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. avoid contact with metals

Storage stability:

Storage temperature: < 40 °C

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

No occupational exposure limits known.

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#### Personal protective equipment

##### Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded (Particle filter EN 143 P2 or FFP2)

##### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

butyl rubber gloves - material thickness: 0.5 mm

nitrile rubber (NBR) - 0.4 mm coating thickness

Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

##### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

##### Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

##### General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

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## 9. Physical and Chemical Properties

Form:	solid
Colour:	yellow
Odour:	No data available.
pH value:	12.0 (10.00000 g/l)
Melting point:	not determined
onset of boiling:	Study technically not feasible.
Flash point:	(ISO 3679) not applicable, the product is a solid
Flammability (solid/gas):	not flammable
Lower explosion limit:	not applicable
Ignition temperature:	not applicable, the product is a solid

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Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Self heating ability: It is not a material capable of spontaneous heating

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure:

(20 °C)  
The product is a non-volatile solid.

(50 °C)  
not determined

Density: 1.000 g/cm<sup>3</sup>  
(20 °C)

Relative vapour density (air):  
The product is a non-volatile solid.

Solubility in water:  
<= 50 g/l

Miscibility with water:  
miscible

Partitioning coefficient n-octanol/water (log Pow):  
not applicable for mixtures

Viscosity, kinematic:

(23 °C)  
not applicable, the product is a solid

(40 °C)  
not applicable, the product is a solid

Flow time:  
not applicable, the product is a solid

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## 10. Stability and Reactivity

Conditions to avoid:

Avoid dust formation. Avoid direct sunlight. Avoid humidity. avoid contact with metals

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:

metal, flammable, oxidizable substances, organic substances, ammonium salts, Keep away from highly acidic or alkaline substances, amines and oxidants in order to prevent exothermal reactions., reducing agents

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Corrosion to metals: Corrosive effect on metals.

Hazardous reactions:

Substance/product may act as an oxidizer. Contact with acids may liberate toxic gas. Danger of ignition on contact with organic substances. Reacts with metals, with evolution of hydrogen. In the presence of nitrosating agents this substance can form nitrosamines.

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:

ATE (oral): > 2,000 mg/kg (calculated)

#### Assessment of acute toxicity

Of moderate toxicity after single ingestion.

Information on: sodium nitrite

#### Acute oral toxicity

Experimental/calculated data:

LD50 rat (oral): 180 mg/kg

#### Symptoms

allergic symptoms Symptoms can appear later. irritation of respiratory tract skin corrosion  
Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

#### Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

#### Respiratory/Skin sensitization

Assessment of sensitization:

Based on available data, the classification criteria are not met.



**Germ cell mutagenicity**

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Assessment of reproduction toxicity:

Based on available data, the classification criteria are not met.

**Developmental toxicity**

Assessment of teratogenicity:

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (single exposure)**

Causes temporary irritation of the respiratory tract.

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

Based on available data, the classification criteria are not met.

**Aspiration hazard**

No aspiration hazard expected.

**Other relevant toxicity information**

Inhalation of nitrous gas (e.g. after fires) can cause lung oedema. Nausea, unconsciousness, haematurie (blood in the urine), shortness of breath or circulatory collapse are possible.

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**12. Ecological Information****Ecotoxicity**

Assessment of aquatic toxicity:

Toxic to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

**Mobility**

Assessment transport between environmental compartments:

No data available.

## Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Biological degradability of hazardous substances mentioned in section 3:

Information on: sodium nitrite

Elimination information:

not applicable

## Bioaccumulation potential

Bioaccumulation potential:

No data available.

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## 13. Disposal Considerations

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Domestic transport:

UN number or ID number: UN 3253

UN proper shipping name: DISODIUM TRIOXOSILICATE (Sodium metasilicate pentahydrate)

Transport hazard class(es): 8

Packing group: III

Environmental hazards: no

Special precautions for user: None known

### Further information

Hazchem Code:2X

IERG Number:37

### Sea transport

IMDG

UN number or ID number: UN 3253

UN proper shipping name: DISODIUM TRIOXOSILICATE (Sodium metasilicate pentahydrate)

Transport hazard class(es): 8

Packing group: III

Environmental hazards: no

Marine pollutant: NO

Special precautions for EmS: F-A; S-B

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user:

**Air transport**

IATA/ICAO

UN number or ID number: UN 3253  
UN proper shipping name: DISODIUM TRIOXOSILICATE (Sodium metasilicate pentahydrate)  
Transport hazard class(es): 8  
Packing group: III  
Environmental hazards: No Mark as dangerous for the environment is needed  
Special precautions for user: None known

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

**Registration status:**

AICIS, AU

Listed in AIIIC.

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.