

Safety data sheet

Page: 1/12

Chemetall (now part of BASF Group) Safety data sheet

Date / Revised: 14.06.2021

Product: **CHROMICOAT T3A**

Version: 1.0

(30720590/SDS_GEN_NZ/EN)

Date of print 15.06.2021

1. Substance/preparation and manufacturer/supplier identification

CHROMICOAT T3A

Recommended use: Chromating solution for surface treatment., Restricted to professional users.

Not recommended use: Uses other than recommended

Manufacturer/supplier:

Chemetall (New Zealand) Ltd
664 Rosebank Road Avondale,
Auckland 1026
NEW ZEALAND
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency information:

National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 4 (oral)
Acute toxicity: Cat. 2 (dermal)
Acute toxicity: Cat. 2 (Inhalation - vapour)
Skin corrosion/irritation: Cat. 1B
Serious eye damage/eye irritation: Cat. 1
Skin sensitization: Cat. 1
Respiratory sensitization: Cat. 1
Germ cell mutagenicity: Cat. 1B
Carcinogenicity: Cat. 1A

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Reproductive toxicity: Cat. 2 (fertility)
 Oxidising liquids: Cat. 3
 Specific target organ toxicity — repeated exposure: Cat. 1
 Hazardous to the aquatic environment - acute: Cat. 1
 Hazardous to the aquatic environment - chronic: Cat. 1
 Corrosive to metals: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:

Danger

Hazard Statement:

H272	May intensify fire; oxidizer.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P284	In case of inadequate ventilation wear respiratory protection.
P264	Wash contaminated body parts thoroughly after handling.
P220	Keep away from clothing and other combustible materials.
P202	Do not handle until all safety precautions have been read and understood.
P262	Do not get in eyes, on skin, or on clothing.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe dust or mist.
P272	Contaminated work clothing should not be allowed out of the workplace.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P281	Use personal protective equipment as required.

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 Date / Revised: 14.06.2021
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Precautionary Statements (Response):

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water spray for extinction.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P390	Absorb spillage to prevent material damage.
P310	Immediately call a POISON CENTER or physician.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P308 + P313	IF exposed or concerned: Get medical attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P330	Rinse mouth
P362 + P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.

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.

3. Composition/information on ingredients

Chemical nature

Water, inorganic salts, inorganic acids

Hazardous ingredients

chromium trioxide

Content (W/W): $\geq 25\%$ - $< 30\%$
 CAS Number: 1333-82-0

Aquatic Chronic: Cat. 1
 Ox. Sol.: Cat. 1
 Acute Tox.: Cat. 2 (Inhalation - dust)
 Acute Tox.: Cat. 3 (oral)
 Acute Tox.: Cat. 2 (dermal)
 Skin Corr./Irrit.: Cat. 1A
 Eye Dam./Irrit.: Cat. 1
 Resp. Sens.: Cat. 1
 Skin Sens.: Cat. 1
 Muta.: Cat. 1B
 Carc.: Cat. 1A
 Repr.: Cat. 2 (fertility)
 STOT RE (Respiratory system): Cat. 1
 Aquatic Acute: Cat. 1
 M-factor acute: 1
 M-factor chronic: 1

nitric acid

Content (W/W): $\geq 3\%$ - $< 5\%$
 CAS Number: 7697-37-2

Ox. Liq.: Cat. 2
 Met. Corr.: Cat. 1
 Acute Tox.: Cat. 3 (Inhalation - vapour)
 Skin Corr./Irrit.: Cat. 1A
 Eye Dam./Irrit.: Cat. 1

Hydrofluoric acid

Content (W/W): $\geq 0.3\%$ - $< 0.5\%$
 CAS Number: 7664-39-3

Acute Tox.: Cat. 2 (Inhalation - gas)
 Acute Tox.: Cat. 2 (oral)
 Acute Tox.: Cat. 1 (dermal)
 Skin Corr./Irrit.: Cat. 1A
 Eye Dam./Irrit.: Cat. 1
 Aquatic Acute: Cat. 3

Tetrafluoroboric acid

Content (W/W): $\geq 7\%$ - $< 10\%$
 CAS Number: 16872-11-0

Skin Corr./Irrit.: Cat. 1B

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. 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

Chemetall (now part of BASF Group) Safety data sheet
Date / Revised: 14.06.2021
Product: **CHROMICOAT T3A**

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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.

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. Apply calcium gluconate gel.

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. Keep at rest. Immediately rinse mouth and then drink milk or a magnesium hydroxide/calcium carbonate suspension, do not induce vomiting, seek medical attention.

Note to physician:

Symptoms: allergic symptoms, skin corrosion, Symptoms of poisoning may only appear after several hours., 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: 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: Administration of calcium gluconate.

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:

chromium oxides, fluorinated compounds, nitrogen oxides

When dry, the substance/product is oxidising. Hazardous decomposition products formed under fire conditions.

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.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:

Ensure adequate ventilation. Pick up with inert absorbent material (e.g. sand, earth etc.). Take up mechanically and collect in suitable container (adequately labelled) for disposal.

7. Handling and Storage

Handling

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. Avoid inhalation of vapour and spray mist. 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 all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted. Dried product promotes spreading of fire.

Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

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

Suitable materials for containers: rubberized

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. 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 Store protected against freezing.

Storage stability:

Storage temperature: 0 - 40 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

Chemetall (now part of BASF Group) Safety data sheet
Date / Revised: 14.06.2021
Product: **CHROMICOAT T3A**

Version: 1.0

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Date of print 15.06.2021

chromium trioxide, 1333-82-0;

TWA value 0.0002 mg/m³ (ACGIHTLV), Inhalable fraction

Measured as: chromium(VI)

STEL value 0.0005 mg/m³ (ACGIHTLV), Inhalable fraction

Measured as: chromium(VI)

Skin Designation (OEL (NZ))

Measured as: Chromium (Cr)

Skin absorption can be significant.

(OEL (NZ))

Measured as: Chromium (Cr)

Exposure can also be estimated by biological monitoring.

Skin Designation (ACGIHTLV), Inhalable fraction

Measured as: chromium(VI)

Danger of cutaneous absorption

TWA value 0.01 mg/m³ (OEL (NZ))

Measured as: Chromium (Cr)

This is an interim WES and WorkSafe considers it may not be protective for all workers. As such, cautions should be applied in using the WES for health risk assessment. WorkSafe intends to lower the WES in the future for the Chromium (VI) compounds, as Cr.

nitric acid, 7697-37-2;

TWA value 2 ppm (ACGIHTLV)

STEL value 4 ppm (ACGIHTLV)

STEL value 10 mg/m³ ; 4 ppm (OEL (NZ))

TWA value 5.2 mg/m³ ; 2 ppm (OEL (NZ))

Hydrofluoric acid, 7664-39-3;

CLV 2 ppm (ACGIHTLV)

Measured as: fluorine (F)

TWA value 0.5 ppm (ACGIHTLV)

Measured as: fluorine (F)

CLV 2.6 mg/m³ ; 3 ppm (OEL (NZ))

Measured as: fluorine (F)

Skin Designation (ACGIHTLV)

Measured as: fluorine (F)

Danger of cutaneous absorption

Skin Designation (ACGIHTLV)

Measured as: fluorine (F)

Danger of cutaneous absorption

Personal protective equipment

Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded (Gas filter EN 14387 B)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

fluoroelastomer (FKM) - 0.7 mm coating thickness

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

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 Date / Revised: 14.06.2021
 Product: **CHROMICOAT T3A**

Version: 1.0

(30720590/SDS_GEN_NZ/EN)

Date of print 15.06.2021

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:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Persons with a history of allergies, asthma, recurrent or chronic respiratory disease must not be employed in any process in which this product is used. Persons using this product should undergo lung function tests at regular intervals. 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.

9. Physical and Chemical Properties

Form:	liquid
Colour:	red
Odour:	No data available.
pH value:	1.0 (20 °C) (undiluted)
Melting point:	not determined
onset of boiling:	> 100 °C
Flash point:	not applicable
Flammability (solid/gas):	not applicable
Lower explosion limit:	not determined
Ignition temperature:	not determined
Self heating ability:	It is not a substance capable of spontaneous heating.
Explosion hazard:	not explosive
Fire promoting properties:	Oxidizing.

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Date / Revised: 14.06.2021
Product: **CHROMICOAT T3A**

Version: 1.0

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Date of print 15.06.2021

Vapour pressure:	(20 °C) not determined	
	(50 °C) not determined	
Density:	1.310 g/cm ³ (20 °C)	
Solubility in water:	soluble	
Miscibility with water:	miscible	
Viscosity, kinematic:	6.0 mm ² /s (20 °C)	
	(40 °C) not determined	
Flow time:	< 30 s	(DIN EN ISO 2431; 3 mm)

10. Stability and Reactivity

Conditions to avoid:

Avoid direct sunlight. Avoid freezing. Avoid drying-out. avoid contact with metals

Substances to avoid:

metal, glass, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Corrosion to metals: Corrosive effect on metals.

Hazardous reactions:

Reacts as a strong oxidizing agent with all oxidizable organic and inorganic substances. Fire hazard. Reacts with metals, with evolution of hydrogen. Dried product promotes spreading of fire.

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.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of high toxicity after short-term inhalation. Of high toxicity after short-term skin contact.

Irritation

Assessment of irritating effects:

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.

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

Respiratory/Skin sensitization**Assessment of sensitization:**

The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.

Germ cell mutagenicity**Assessment of mutagenicity:**

Capable of causing genetic defects.

Carcinogenicity**Assessment of carcinogenicity:**

The substance caused cancer in animal studies.

Reproductive toxicity**Assessment of reproduction toxicity:**

The results of animal studies suggest a fertility impairing effect.

Developmental toxicity**Assessment of teratogenicity:**

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

Specific target organ toxicity (single exposure):**Assessment of STOT single:**

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

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

Repeated exposure to small quantities may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Chemetall (now part of BASF Group) Safety data sheet
Date / Revised: 14.06.2021
Product: **CHROMICOAT T3A**

Version: 1.0

(30720590/SDS_GEN_NZ/EN)

Date of print 15.06.2021

Assessment of aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. 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 (H₂O):

No data available concerning biodegradation and elimination.

Bioaccumulation potential

Bioaccumulation potential:

No data available.

13. Disposal Considerations

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.

14. Transport Information

Domestic transport:

Packing group: II
ID number: UN 2922
Transport hazard class(es): 8, 6.1, EHSM
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains CHROMIC ACID ANHYDRIDE/CHROMIUM TRIOXIDE, NITRIC ACID)

Further information

Hazchem Code:2X

IERG Number:37

Sea transport

IMDG

Packing group: II
ID number: UN 2922
Transport hazard class(es): 8, 6.1, EHSM
Marine pollutant: YES
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains NITRIC ACID, CHROMIC ACID ANHYDRIDE/CHROMIUM TRIOXIDE)

Chemetall (now part of BASF Group) Safety data sheet
Date / Revised: 14.06.2021
Product: **CHROMICOAT T3A**

Version: 1.0

(30720590/SDS_GEN_NZ/EN)

Date of print 15.06.2021

Air transport

IATA/ICAO

Packing group:	II
ID number:	UN 2922
Transport hazard class(es):	8, 6.1
Proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (contains CHROMIC ACID ANHYDRIDE/CHROMIUM TRIOXIDE, NITRIC ACID)

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.

A certified handler is required for the handling of this substance.

This is a tracked substance. The location and movement of this substance must be recorded at each stage of its lifecycle in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017.

HSNO Approval Number HSR002633

Oxidising [5.1.1], Toxic [6.1 + 6.7], Corrosive Substances Group Standard 2017

16. Other Information

Restricted to professional users.

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.