

SAFETY DATA SHEET

according to Regulation (EU) No. 1907/2006

Chemetall

Okemcoat F2

Version: 2 05.12.2007

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

English

Product information

Commercial Product Name Okemcoat F2

Recommended use:

Chromating solution for surface treatment.

Company: Chemetall (Pty) Ltd
PO Box 232
Boksburg 1460

Lead Organisation:
Contact person:
Telephone: 011-914-2500 Telefax: 011-914-4792

Product safety:
Telephone: +49(0)69 7165 2292
E-mail address: msds.de@chemetall.com

Emergency telephone: 082-800-9294

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Classification:

Oxidising R 8 Contact with combustible material may cause fire.

Carcinogenic Category 2 R45 May cause cancer.

Corrosive R34 Causes burns.

sensitizing R43 May cause sensitization by skin contact.

dangerous for the R51/53 Toxic to aquatic organisms, may cause long-term environment adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:
Aqueous solution of inorganic salts.

Hazardous components

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Dichromium tris(chromate), Chromium III chromate 2.50 - 10.00 %

CAS-No.: 24613-89-6 **EINECS-No.:** 246-356-2

Classification: O; R 8 Carc.Cat.2; R45 C; R35 R43 N; R50, R53

Chromium tris(dihydrogen phosphate) 2.50 - 10.00 %

CAS-No.: 27096-04-4 **EINECS-No.:** 248-221-3

Classification: Xi; R36/38

chromium III nitrate 1.00 - 2.50 %

CAS-No.: 13548-38-4 **EINECS-No.:** 236-921-1

Classification: O; R 8 Xn; R22 Xi; R36/38

4. FIRST AID MEASURES

General advice:

Take off contaminated clothing and shoes immediately.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Skin contact:

Wash off immediately with soap and plenty of water.

Inhalation:

Move to fresh air. If symptoms persist, call a physician.

Ingestion:

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Suitable extinguishing media:

Carbon dioxide (CO₂), Dry powder, Water spray, Alcohol-resistant foam

Further information:

The product itself does not burn. In the event of fire, cool tanks with water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear personal protective equipment. Evacuate personnel to safe areas.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Soak up with liquid binder (sand, kieselguhr, acid binder, universal binder). Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE**Handling**

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Safe handling advice:

Have eye wash bottle or eye rinse ready at the work place. Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Handle and open container with care.

Advice on protection against fire and explosion:

Keep away from open flames, hot surfaces and sources of ignition. When dry, the substance/product is oxidising. **Storage**

Requirements for storage areas and containers:

Store at room temperature in the original container. Keep container tightly closed and in a wellventilated place. **Further information:**

Do not allow to dry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Dichromium tris(chromate), Chromium III chromate 24613-89-6

	Value	Update	Basis
TWA	0.05 mg/m ³ as Cr	2007	EH40 WEL

Chromium tris(dihydrogen phosphate) 27096-04-4

	Value	Update	Basis
TWA	2.00 mg/m ³	02 2006	EU ELV
TWA	0.50 mg/m ³ as Cr	2007	EH40 WEL

Personal protective equipment

Respiratory protection:

Breathing apparatus needed only when aerosol or mist is formed.

Hand protection:

Material: butyl-rubber

Break through time: > 480 min

Glove thickness: 0.5 mm

General advice: The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it., The exact break through time can be obtained from the protective glove producer and this has to be observed.

Eye protection:

Tightly fitting safety goggles

Skin and body protection:

Protective suit **Hygiene**

measures:

Take off contaminated clothing and shoes immediately. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Do not breathe gas/fumes/vapour/spray.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid

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Colour:	green	Odour:	odourless
Solidification temperature/range:	< 0 °C		
Flash point:	not applicable		
Autoignition temperature:	not applicable		
Explosive properties			
Lower explosion limit:	not applicable		
Upper explosion limit:	not applicable		
Density:	1.12 - 1.16 g/cm ³ at 20 °C Method: DIN 51757		
Water solubility:	completely miscible		
pH:	1.7 - 2.7 at: 60 g/L at: 20 °C		
Viscosity:	11 s at 23 °C Method: ISO 2431/4mm		

10. STABILITY AND REACTIVITY

Conditions to avoid:

No decomposition if used as directed.

Materials to avoid:

Violent reaction is possible on contact with organic or other oxidizable substances.

Hazardous decomposition products:

No decomposition if stored and applied as directed.

Hazardous reactions:

Contact with combustible material may cause fire.

11. TOXICOLOGICAL INFORMATION

Skin irritation:

Causes burns.

Eye irritation:

Causes severe burns.

Sensitisation:

May cause sensitization by skin contact.

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Further toxicological information:

May cause cancer., Carcinogenic Category 2

Further toxicological information:

If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach., Ingestion is dangerous for blood circulation and kidney functions.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability):

Biodegradability:

Remarks: no data available

Further information:

highly water endangering

Further information:

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Even leakage of small amounts in the subsoil can contaminate drinking water. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste key for the unused product:

060405 wastes containing heavy metals

Product:

Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging:

Dispose of as special waste in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Regulation : ADR
UN/ID No.: 1755
Proper shipping name: CHROMIC ACID SOLUTION
Packaging group: II
Class: 8
ADR/RID-Labels: 8

Regulation : RID
UN/ID No.: 1755
Proper shipping name: CHROMIC ACID SOLUTION
Packaging group: II
Class: 8
ADR/RID-Labels: 8

Regulation : IMDG
UN/ID No.: 1755
Proper shipping name: CHROMIC ACID SOLUTION
Packaging group: II

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Class: 8
EmS: F-A S-B

Regulation : IATA_C
UN/ID No.: 1755
Proper shipping name: CHROMIC ACID
SOLUTION Packaging group: II Class: 8

Regulation : IATA_P
UN/ID No.: 1755
Proper shipping name: CHROMIC ACID SOLUTION
Packaging group: II
Class: 8

15. REGULATORY INFORMATION

Hazardous components which must be listed on the label:

- Dichromium tris(chromate), Chromium III chromate

Labelling:Oxidising



Toxic

Dangerous for the environment

R-phras(e)s:

R45
R 8
R34
R43
R51/53May cause cancer.
Contact with combustible material may cause fire.
Causes burns.
May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phras(e)s:

S53 Avoid exposure - obtain special instructions before use.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 This material and its container must be disposed of in a safe way.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.**Special labelling of certain preparations:**

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Restricted to professional users.

Other regulations:

German regulation: Chromium(VI) compounds (as dust/aerosol) are carcinogenic substances, category 2.

Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R 8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.

R35 Causes severe burns.

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R45 May cause cancer.

R50 Very toxic to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.