

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04

Version: 3.0

Page: 1/12

(30689829/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Okemcoat F2

#### Recommended use of the chemical and restriction on use

Recommended use\*: Surface treatment agent; Restricted to professional users.

Unsuitable for use: See section 15 for more information.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

Chemetall U.S., Inc.  
675 Central Avenue  
New Providence, NJ 07974 – USA  
+1 800 526-4473  
sds.na-chemetall@basf.com

#### Emergency telephone number

Telephone: 800-424-9300, 1-703-527-3887

#### Other means of identification

Chemical family: aqueous solution, inorganic

---

### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Acute Tox.	4 (dermal)	Acute toxicity
Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Skin Corr./Irrit.	1	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Resp. Sens.	1	Respiratory sensitization
Skin Sens.	1	Skin sensitization
Muta.	1	Germ cell mutagenicity
Carc.	1	Carcinogenicity

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 2/12  
(30689829/SDS\_GEN\_US/EN)

Repr.	2 (fertility)	Reproductive toxicity
STOT RE	1	Specific target organ toxicity — repeated exposure
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic
Met. Corr.	1	Corrosive to metals

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H290	May be corrosive to metals.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful 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):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P260	Do not breathe dust or mist.
P270	Do not eat, drink or smoke when using this product.
P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original packaging.
P264	Wash contaminated body parts thoroughly after handling.
P284	In case of inadequate ventilation wear respiratory protection.
P201	Obtain special instructions before use.

Precautionary Statements (Response):

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 3/12  
(30689829/SDS\_GEN\_US/EN)

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

#### Precautionary Statements (Storage):

P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

#### Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
------	---

### Hazards not otherwise classified

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.

#### Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 12 %

---

### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

##### Chromium trioxide

CAS Number: 1333-82-0  
Content (W/W):  $\geq 1.0 - < 3.0\%$   
Synonym: Chromium trioxide

##### Silicon dioxide

CAS Number: 7631-86-9  
Content (W/W):  $\geq 1.0 - < 3.0\%$   
Synonym: Silicon dioxide

##### Nitric acid

CAS Number: 7697-37-2  
Content (W/W):  $\geq 1.0 - < 3.0\%$   
Synonym: Nitric acid; Aqua fortis

Phosphoric acid, chromium(3+) salt (1:1)

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 4/12  
(30689829/SDS\_GEN\_US/EN)

CAS Number: 7789-04-0  
Content (W/W):  $\geq 5.0$  -  $< 7.0\%$   
Synonym: No data available.

Dichromium tris(chromate)  
CAS Number: 24613-89-6  
Content (W/W):  $\geq 3.0$  -  $< 5.0\%$   
Synonym: Authorisation List (Annex XIV of the REACH Regulation); Sunset date  
22January 2019

### 4. First-Aid Measures

#### Description of 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 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.

##### If on skin:

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.

##### If in 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.

##### If swallowed:

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

#### Most important symptoms and effects, both acute and delayed

Symptoms: 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.

-----  
*Information on: Chromium trioxide*

*Symptoms: Overexposure may cause:, vomiting, abdominal cramps, dyspnea, nephritis, shock, nausea, coughing*

*Information on: Nitric acid*

*Symptoms: Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 5/12  
(30689829/SDS\_GEN\_US/EN)

*Information on: Phosphoric acid, chromium(3+) salt (1:1)*

*Symptoms: Overexposure may cause: Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

Hazards: irritation of respiratory tract skin corrosion 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.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Antidote: No known specific antidote.  
Treatment: Symptomatic treatment (decontamination, vital functions).

---

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
chromium oxides

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

### Advice for fire-fighters

Protective equipment for fire-fighting:  
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, protective equipment and emergency procedures

Use personal protective clothing. Avoid breathing vapours. Keep away from sources of ignition. Ensure adequate ventilation. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### 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 and material for containment and cleaning up

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 6/12  
(30689829/SDS\_GEN\_US/EN)

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

## 7. Handling and Storage

### Precautions for safe 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.

### Conditions for safe storage, including any incompatibilities

Segregate from combustible materials. Segregate from bases.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP)

Further information on storage conditions: The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep only in the original container. Keep container tightly closed in a cool, well-ventilated place. Avoid direct sunlight. avoid contact with metals

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

Chromium trioxide	OSHA PEL	TWA value 0.005 mg/m <sup>3</sup> ; OSHA Action level 0.0025 mg/m <sup>3</sup> ;
	ACGIH TLV	Skin Designation Inhalable fraction (chromium(VI)); The substance can be absorbed through the skin. TWA value 0.0002 mg/m <sup>3</sup> Inhalable fraction (chromium(VI)); STEL value 0.0005 mg/m <sup>3</sup> Inhalable fraction (chromium(VI));
Nitric acid	OSHA PEL	PEL 2 ppm 5 mg/m <sup>3</sup> ; STEL value 4 ppm 10 mg/m <sup>3</sup> ; TWA value 2 ppm 5 mg/m <sup>3</sup> ;
	ACGIH TLV	TWA value 2 ppm ; STEL value 4 ppm ;
Phosphoric acid, chromium(3+) salt (1:1)	OSHA PEL	PEL 0.5 mg/m <sup>3</sup> (Chromium (Cr)); TWA value 1 mg/m <sup>3</sup> ;
	ACGIH TLV	TWA value 0.003 mg/m <sup>3</sup> Inhalable fraction (chromium(III));
Dichromium tris(chromate)	OSHA PEL	CLV 0.1 mg/m <sup>3</sup> (chromium trioxide (CrO <sub>3</sub> )); CLV 0.1 mg/m <sup>3</sup> ; OSHA Action level 0.0025 mg/m <sup>3</sup> ; TWA value 0.005 mg/m <sup>3</sup> ;

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 7/12  
(30689829/SDS\_GEN\_US/EN)

ACGIH TLV TWA value 0.0002 mg/m<sup>3</sup> Inhalable fraction (chromium(VI)); STEL value 0.0005 mg/m<sup>3</sup> Inhalable fraction (chromium(VI)); Skin Designation Inhalable fraction (chromium(VI)); The substance can be absorbed through the skin.

### Advice on system design:

Use only in well-ventilated areas.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

#### Hand protection:

fluoroelastomer (Viton), Chemical resistant protective gloves (EN 374), Further information on penetration time is available from the manufacturer of the glove., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream)., Use suitable protective gloves made of nitrile rubber or butyl rubber. Please observe the glove manufacturer's instructions on permeability and rupture times as well as the specific workplace conditions.

#### 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. 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
Odour:	acidic
Colour:	green
pH value:	< 2.5 ( 20 °C) (undiluted)
Freezing point:	-8 °C
onset of boiling:	not determined
Flash point:	not applicable
Flammability:	not applicable
Lower explosion limit:	not determined
Upper explosion limit:	not available
Autoignition:	not determined
Vapour pressure:	( 20 °C) not determined

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 8/12  
(30689829/SDS\_GEN\_US/EN)

---

Density:	1.134 g/cm <sup>3</sup> ( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):	No data available.
Solubility in water:	fully soluble
Miscibility with water:	miscible

---

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:  
Corrosive effect on metals.

Oxidizing properties:  
not fire-propagating

### Chemical stability

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

### Possibility of hazardous reactions

Reacts with metals, with evolution of hydrogen. Dried product promotes spreading of fire.

### Conditions to avoid

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

### Incompatible materials

reducing agents, flammable, oxidizable substances, organic substances

### Hazardous decomposition products

Decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

---

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Primary routes of entry

Ingestion  
Inhalation.  
Skin

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after short-term skin contact. Of moderate toxicity after short-term inhalation.

#### Assessment other acute effects

Assessment of STOT single:



# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 9/12  
(30689829/SDS\_GEN\_US/EN)

Causes temporary irritation of the respiratory tract.

### Irritation / corrosion

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.

### Sensitization

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

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs.

### Genetic toxicity

Assessment of mutagenicity: Capable of causing genetic defects.

### Carcinogenicity

Assessment of carcinogenicity: The substance caused cancer in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

### Reproductive toxicity

Assessment of reproduction toxicity: Contains a suspected reproductive toxin.

### Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

---

## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

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.

### **Bioaccumulative potential**

#### Bioaccumulation potential

No data available.

### **Mobility in soil**

#### Assessment transport between environmental compartments

No data available.

---

## **13. Disposal considerations**

### **Waste disposal of substance:**

Observe national and local legal requirements.

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 10/12  
(30689829/SDS\_GEN\_US/EN)

### Container disposal:

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

---

## 14. Transport Information

### Land transport

USDOT

Hazard class: 8  
Packing group: II  
ID number: UN 3264  
Hazard label: 8  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains CHROMIC ACID ANHYDRIDE/CHROMIUM TRIOXIDE, CHROMIUM(III) CHROMATE)

### Sea transport

IMDG

Hazard class: 8  
Packing group: II  
ID number: UN 3264  
Hazard label: 8, EHSM  
Marine pollutant: YES  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains CHROMIC ACID ANHYDRIDE/CHROMIUM TRIOXIDE, CHROMIUM(III) CHROMATE)

### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: II  
ID number: UN 3264  
Hazard label: 8  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains CHROMIC ACID ANHYDRIDE/CHROMIUM TRIOXIDE, CHROMIUM(III) CHROMATE)

---

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released; restriction on use / listed

TSCA § 6 final Risk Management Rule  
40 CFR 749.68

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

CAS Number      Chemical name

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04  
Version: 3.0

Page: 11/12  
(30689829/SDS\_GEN\_US/EN)

7697-37-2	Nitric acid
7789-04-0	Phosphoric acid, chromium(3+) salt (1:1)
1333-82-0	Chromium trioxide

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
10 LBS	1333-82-0; 24613-89-6	Chromium trioxide; Dichromium tris(chromate)

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	7697-37-2	Nitric acid
	7789-04-0	Phosphoric acid, chromium(3+) salt (1:1)
PA	1333-82-0	Chromium trioxide
	7697-37-2	Nitric acid
	7789-04-0	Phosphoric acid, chromium(3+) salt (1:1)
	24613-89-6	Dichromium tris(chromate)

### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including CHROMIUM (HEXAVALENT COMPOUNDS), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **NFPA Hazard codes:**

Health: 3      Fire: 0      Reactivity: 1      Special:

### **HMIS III rating**

Health: 3      Flammability: 0      Physical hazard: 1

---

## 16. Other Information

### **SDS Prepared by:**

Chemetall (now part of BASF Group) NA Product Regulations  
SDS Prepared on: 2020/03/04

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

---

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED

# Safety Data Sheet

## Okemcoat F2

Revision date : 2020/03/04

Page: 12/12

Version: 3.0

(30689829/SDS\_GEN\_US/EN)

A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.  
END OF DATA SHEET