

Safety Data Sheet

Okemcoat F2

Revision date : 2018/01/04
Version: 1.1

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(30689829/SDU_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

* 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

Telephone: +1 800 526-4473
E-mail address: michael.l.chang@basf.com

Emergency telephone number

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

Other means of identification

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	greenish-blue
Odour	Acidic
Hazard Summary	Causes severe burns. Also harmful by inhalation and if swallowed. May cause cancer.

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GHS Classification

Acute toxicity (Oral) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion : Category 1A
Serious eye damage : Category 1
Carcinogenicity : Category 1A

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : Harmful if swallowed or in contact with skin
Causes severe skin burns and eye damage.
May cause cancer.

Precautionary statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Use personal protective equipment as required.
Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
IF exposed or concerned: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Storage:
Store locked up.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Inhalation : yes
Skin : yes

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Ingestion : yes
Aggravated Medical Condition : None known.

Carcinogenicity:

IARC	Group 1: Carcinogenic to humans	
	Chromic (VI) Acid	1333-82-0
ACGIH	Confirmed human carcinogen	
	Chromic (VI) Acid	1333-82-0
OSHA	OSHA specifically regulated carcinogen	
	Chromic (VI) Acid	1333-82-0
NTP	Known to be human carcinogen	
	Chromic (VI) Acid	1333-82-0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

Hazardous components

Component	CAS-No.	Weight percent
Chromium (III) phosphate	7789-04-0	5 - 10
Chromic (VI) Acid	1333-82-0	5 - 10
Nitric acid	7697-37-2	1 - 5
Trade Secret Registry	735517-5038P	1 - 5

Unidentified ingredients are considered not hazardous, or not required to be listed under Federal Hazard Communication Standard (29CFR 1910.1200).

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
If symptoms persist, call a physician.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Take off contaminated clothing and shoes immediately.
Call a physician if irritation develops or persists.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

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- Keep eye wide open while rinsing.
Get medical attention immediately
- If swallowed : Rinse mouth.
Drink 1 or 2 glasses of water.
Never give anything by mouth to an unconscious person.
Get medical attention immediately

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
- Methods and materials for containment and cleaning up : Ventilate area.
Neutralize with lime milk or soda and flush with plenty of water.
Clean up with inert absorbant material.
Keep in suitable, closed containers for disposal.
Flush with plenty of water.
- Additional advice : Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Unscrew closure slowly. Allow all pressure to escape through threads before removing closure
Add this product to surface of solution slowly to avoid spattering
Do not add large amounts of product to solution at any one time.
Never add liquids to product
Use only with adequate ventilation.
- Conditions for safe storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Store indoors in a cool, well-ventilated place
Keep container out of sun and away from heat.
Keep container closed to prevent drying out.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Chromium (III) phosphate	7789-04-0	TWA	0.500000 mg/m3 (chromium)	OSHA Z-1
		TWA	0.500000 mg/m3 (chromium)	ACGIH
		TWA	0.500000 mg/m3 (chromium)	NIOSH REL
		TWA	0.500000 mg/m3 (chromium)	OSHA Z-1
		TWA	0.500000 mg/m3 (chromium)	ACGIH
		TWA	0.500000 mg/m3 (chromium)	NIOSH REL
		PEL	0.500000 mg/m3 (chromium)	CAL PEL
Chromic (VI) Acid	1333-82-0	TWA	0.001000 mg/m3 (chromium)	NIOSH REL
		TWA	0.050000 mg/m3 (chromium)	ACGIH
		PEL	0.005000 mg/m3	OSHA CARC
		TWA	0.050000 mg/m3 (chromium)	ACGIH
		PEL	0.005000 mg/m3 (chromium)	OSHA CARC
		TWA	0.000200 mg/m3 (chromium)	NIOSH REL
		PEL	0.005000 mg/m3 (chromium)	CAL PEL
Nitric acid	7697-37-2	C	0.100000 mg/m3 (chromium)	CAL PEL
		TWA	2 ppm	ACGIH
		STEL	4 ppm	ACGIH
		ST	4 ppm 10.000000 mg/m3	NIOSH REL
		TWA	2 ppm 5.000000 mg/m3	NIOSH REL
		TWA	2 ppm 5.000000 mg/m3	OSHA Z-1
		TWA	2 ppm 5.000000 mg/m3	OSHA P0
		STEL	4 ppm 10.000000 mg/m3	OSHA P0
		PEL	2 ppm 5.000000 mg/m3	CAL PEL
		STEL	4 ppm 10.000000 mg/m3	CAL PEL
Trade Secret Registry	735517-5038 P	TWA	6.000000 mg/m3	NIOSH REL
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2	OSHA Z-3
		TWA (Dust)	20 Million particles	OSHA Z-3

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			per cubic foot (Silica)	
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6.000000 mg/m3 (Silica)	NIOSH REL
		PEL	6.000000 mg/m3	CAL PEL

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Chromic (VI) Acid	1333-82-0 , 1333-82-0	Total chromium	Urine	End of shift at end of workweek	25.0000 µg/l	ACGIH BEI
		Total chromium	Urine	Increase during shift	10.0000 µg/l	ACGIH BEI
		Total chromium	Urine	End of shift at end of workweek	25.0000 µg/l	ACGIH BEI
		Total chromium	Urine	Increase during shift	10.0000 µg/l	ACGIH BEI

Personal protective equipment

- Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.
- Hand protection
Remarks : Impervious gloves
- Eye protection : Chemical resistant goggles must be worn.
Face-shield
- Skin and body protection : Complete suit protecting against chemicals
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Wear suitable gloves and eye/face protection.
Wear suitable protective clothing.
Wash hands before breaks and immediately after handling the product.
Provide adequate ventilation.
Do not inhale fumes.
Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : greenish-blue

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Odour	: Acidic
pH	: < 2.5
Freezing point	: -8.3 °C
Boiling point/boiling range	: No data available
Flash point	: > 93.4 °C
Evaporation rate	: (Water =1) Less than 1
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative density	: 1.134
Bulk density	: 9.46 lb/gal
Solubility(ies)	
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Avoid letting the product become dry. freezing Direct sources of heat.
Incompatible materials	: Bases Reducing agents Combustible material Organic materials Warning! Do not use together with other products. May release dangerous gases (chlorine).
Hazardous decomposition products	: Chromium oxides Nitrogen oxides (NOx) Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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Acute oral toxicity : Acute toxicity estimate : 1,441.000000 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 1,027.000000 mg/kg
Method: Calculation method

Components:

Chromic (VI) Acid:

Acute oral toxicity : LD50 Rat: 80.000000 mg/kg

LD50 Mouse: 127.000000 mg/kg

Acute inhalation toxicity : LC50 Rat: 0.217000 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Rabbit, male and female: 57.000000 mg/kg

Nitric acid:

Acute inhalation toxicity : LC50 Rat: 67 ppm
Exposure time: 4 h

Skin corrosion/irritation

Components:

Chromic (VI) Acid:

Result: Corrosive

Nitric acid:

Result: Corrosive

Serious eye damage/eye irritation

Components:

Chromic (VI) Acid:

Result: Corrosive

Nitric acid:

Result: Corrosive

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

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STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Bioaccumulative potential

Product:

Partition coefficient: : Remarks: No data available
n-octanol/water
Other adverse effects

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

SECTION 15. REGULATORY INFORMATION

TSCA Status : All components of this material comply with US TSCA requirements.

OSHA Hazards : Carcinogen, Highly toxic by inhalation, Toxic by ingestion, Highly toxic by skin absorption

WHMIS Classification : D2A: Very Toxic Material Causing Other Toxic Effects
E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

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CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Nitric acid	7697-37-2	1,000	55,804

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Nitric acid	7697-37-2	1,000	55,804

SARA 311/312 Hazards : Chronic Health Hazard
Acute Health Hazard

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:
Nitric acid 7697-37-2

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Chromic (VI) Acid 1333-82-0
Chromium (III) phosphate 7789-04-0
Nitric acid 7697-37-2

US State Regulations

Massachusetts Right To Know

Chromic (VI) Acid 1333-82-0
Nitric acid 7697-37-2
Trade Secret Registry 735517-5038P

Pennsylvania Right To Know

water 7732-18-5
Chromium (III) phosphate 7789-04-0
Chromic (VI) Acid 1333-82-0
Nitric acid 7697-37-2
Trade Secret Registry 735517-5038P

New Jersey Right To Know

water 7732-18-5
Chromium (III) phosphate 7789-04-0
Chromic (VI) Acid 1333-82-0
Nitric acid 7697-37-2
Trade Secret Registry 735517-5038P

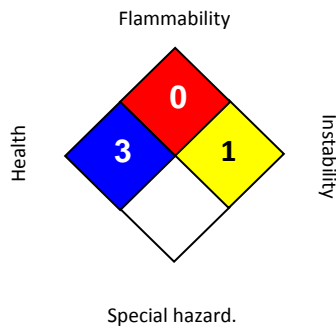
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NFPA:



Corrosive Acid

HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Splash Goggles, Gloves, Apron, Dust and Vapour Respirator

SECTION 16. OTHER INFORMATION

Further information

Version 1.1
Revision Date 12/20/2017

SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations
SDS Prepared on: 2018/01/04

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The content of this Safety Data Sheet (SDS) is based on an existing document from an acquired company with adaptations to Section I. The data is currently under validation.

END OF DATA SHEET