(in accordance with (EU) Regulation 2015/830)

FAKOLITH FK 9



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SECTION 1: DESIGNATION OF THE MIXTURE AND OF THE COMPANY.

1.1 Product identifier.

Product designation: FAKOLITH FK 9

1.2 Relevant identified uses of the mixture and uses advised against.

Gel Cleaner Professional use

Version: 3

Uses advised against:

Uses other than recommended.

1.3 Details of the supplier providing the safety data sheet.

-Manufacturer/Supplier:

Company: Fakolith Farben GmbH

Address: Carl-Benz-Str. 19
Place: 64658 Fürth/ Odw.
Phone: +49 (0) 6253/ 2394-0
Fax: +49 (0) 6253/ 2394-10

-Informing area:

Germany: Uwe Farenkopf (germany@fakolith.com) 49 (0) 6253 / 2394-0 Fax: +49 (0) 6253 / 2394-10

1.4 Telephone for emergencies:

Spain: +34 (0) 915 620 420 **Germany:** +49 (0) 61 31 19 240 **Austria:** +43 (0) 14 06 43 43 **Switzerland:** +41 (0) 44 25 15 151 **Italy:** +39 (0) 26 44 42 523

SECTION 2: POTENTIAL HAZARDS.

2.1 Classification of the mixture.

According to (EU) Regulation No. 1272/2008: Eye Dam. 1 : Causes serious eye damage.

Skin Corr. 1B: Causes severe skin burns and eye damage.

2.2 Marking elements.

Labelling according to (EU) Regulation No 1272/2008:

Pictograms:



Signal word:

Danger

H-phrases:

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H314 Causes severe skin burns and eye damage.

P phrases:

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P260 Do not breathe dust/fume/gas/mist/vapour/spray.

P264 Wash thoroughly after use.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection/...
P303+P361+P353 If contact with skin (or hair) occurs: Remove all contaminated clothing immediately. Wash skin with

water [or shower].

P305+P351+P338 If contact with eyes occurs: Rinse cautiously with water for several minutes. Remove contact lenses

if possible. Continue rinsing.

P310 Call a POISON CENTER or doctor immediately

Keep out of the reach of children.

Do not ingest.

For professional users only.

Store only in the original container.

Includes:

phosphoric acid, ortho-phosphoric acid

2.3 Other hazards.

Under normal conditions of use and in its original form, the product has no other negative effects on health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances that pose a risk to health or the environment according to Regulation (CE) No 1272/2008 have been assigned a limit at the workplace in the Community and are classified as PBT or vPvB or included in the candidate list:

	Name	Concentration	(*)Classification - Regulation 1272/2008	
Identifications			Classification	Specific concentration limits
Index No: 015-011-00-6 CAS No.: 7664-38-2 EC No: 231-633-2 Registrierungsnummer: 01- 2119485924-24-XXXX	[1] phosphoric acid,ortho-phosphoric acid	25 - 50 %	Skin Corr. 1B, H314	Skin Corr. 1B, H314: C ≥ 25 %. Skin Irrit. 2, H315: 10 % ≤ C < 25 % Eye Irrit. 2, H319: 10 % ≤ C < 25 %

^(*) The full text of the H-phrases is given in section 16 of this safety data sheet.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or symptoms of indisposition, call for medical help. Never give substances or liquids of any kind to unconscious persons.

Inhale.

^[1] Substance for which a common occupational exposure limit applies (see point 8.1).

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Injured persons should be brought into fresh air, kept warm and in a resting position. If breathing is irregular or fails, give mouth-to-mouth resuscitation.

Contact with the eyes.

Flush eyes with plenty of clean, fresh water for at least 10 minutes, pulling eyelids upward and seeking medical attention at first opportunity. Avoid the person rubbing the affected eye.

Contact with the skin.

Remove contaminated clothing. Wash skin vigorously and thoroughly with soap and water or an appropriate skin cleanser. DO NOT use solvents or thinners under any circumstances. First aid personnel should have adequate personal protective equipment (see Section 8).

Intake.

Seek immediate medical attention in case of accidental ingestion. Keep injured person in resting position. DO NOT cause vomiting under any circumstances.

4.2 Most important symptoms and effects, both acute and delayed.

Corrosive product, contact with eyes or skin may cause burns, ingestion or inhalation may cause internal injuries, in which case immediate medical attention is required.

Contact with eyes may cause irreversible injuries.

4.3 Indication of immediate medical attention or special treatment.

Seek medical attention immediately. Never give substances or liquids of any kind to unconscious persons. Do not induce vomiting. If the person vomits, clear the airway. Cover the affected area with a sterile gauze dressing. Protect the affected area from pressure or friction.

SECTION 5: FIRE-FIGHTING MEASURES.

The product does not pose any particular risk in the event of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguishing powder or CO2. For more severe fires also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct water jet for extinguishing. Do not use water or foam as an extinguishing agent in the presence of electrical voltage.

5.2 Special hazards arising from the mixture.

Special risks.

The fire may cause dense black smoke. Hazardous substances may be released as a result of thermal decomposition: Carbon monoxide, carbon dioxide. Exposure of the combustion or decomposition products is harmful to health.

5.3 Advice for firefighters.

Cool tanks, storage containers or other containers in the direct vicinity of the heat source or fire with water. When doing so, take the wind direction into account. Ensure that the extinguishing agents used cannot run off into the groundwater or waterways.

Fire Protection Equipment.

Depending on the extent of the fire, it may be necessary to wear thermal protective suits, appropriate breathing apparatus, gloves, goggles or face mask and boots.

SECTION 6: ACTION TO BE TAKEN IN THE EVENT OF IMPROPER RELEASE.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and personal protection see section 8.

6.2 Environmental protection measures.

Contamination of runoff, surface or subsurface waters, and soil shall be avoided.

6.3 Methods and material for containment and cleaning up.

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Absorb spilled substances with absorbent and non-flammable material (earth, sand, vermiculite, diatomaceous earth, etc.). Store product and absorbent material in a suitable container. Immediately clean the contaminated area with a suitable decontaminant. The decontamination agent is added to the waste and left to act in the unsealed container for several days until no further reactions occur.

6.4 Reference to other sections.

For suspension control and personal protection measures, see inscription 8.

For the disposal of residual materials, follow the recommendations in Inscription 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see heading 8.

Do not smoke, eat or drink in the areas where the product is used.

The relevant regulations on safety and hygiene in the workplace must be complied with.

Never use pressure to empty the containers. The containers are not pressure vessels. Always keep the product in its original container.

7.2 Conditions for safe storage taking into account incompatibilities.

Storage in accordance with relevant local regulations. The instructions given on the label must be strictly observed. The containers can be stored in temperature ranges from 5 to 35 °C in dry and well ventilated rooms at a sufficient distance from heat sources and direct sunlight. Also ensure sufficient distance from all ignition points, propellant gas and strongly acidic or alkaline materials. Do not smoke. Access to the storage area by unauthorized persons must be prohibited. Opened containers must be carefully resealed and placed in an upright position to prevent leakage.

The product is not affected by the EU Directive 2012/18/EU (SEVESO III).

7.3 Specific end uses.

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT.

8.1 Parameters to be monitored.

Exposure restriction in the work environment for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
phosphoric acid,ortho-	7664 20 2	European	Eight hours		1
phosphoric acid	7664-38-2	Union [1]	Briefly		2

[1] According to both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).
The product does not contain any substances with biological limits.
Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
	DNEL	Inhalative, Long-term, Local effects	1 (mg/m³)
phosphoric said outhor phosphoric said	(Workers)	-	
phosphoric acid,ortho-phosphoric acid CAS No.: 7664-38-2	DNEL (General	Inhalative, Long-term, Local effects	0.73
EC No: 231-633-2	population)		(mg/m³)
EC NO. 231-033-2	DNEL	Inhalative, Acute, Local effects	2 (mg/m ³)
	(Workers)		

DNEL: Derived No Effect Level Measure of exposure to substances below which no adverse effects are predicted.

DMEL: Derived Minimal Effect Level, measure of exposure corresponding to a low risk that should be considered as a tolerable

minimum.

8.2 Exposure controls.

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Technical measures:

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Provide adequate ventilation. Effective on-site exhaust/ventilation and an effective general exhaust system may be used for this purpose.

Concentration:	100 %				
Uses:	Gel Cleaner				
	Professional use				
Respiratory pro					
PPE:	Filter mask for protect				
Features:	"The mask must have a hermetic seal.	"The mask must have a large field of vision and be anatomically shaped to provide a hermetic seal.			
CEN standards:	EN 136, EN 140, EN 40	05			
Retention:	It must not be stored in places exposed to high temperatures and humidity before use. Particularly check the condition of the inhalation and exhalation valves of the facepiece.				
Comments:	Carefully read the manufacturer's instructions for use and storage of the device. The filters required for the specific characteristics of the risk (particles and aerosols: P1-P2-P3, gases and vapours: A-B-E-K-AX) are inserted in the appliance and replaced according to the manufacturer's recommendations.				
Required filter typ		· ·	3		
Hand protection					
PPE:	Reusable protective gl	oves against chemical	products		m
Features:		"CE" mark category III. Read through the list of chemical products against which the glove has been tested.			
CEN standards:	EN 374-1, En 374-2, E	EN 374-1, En 374-2, EN 374-3, EN 420			
	Regular replacement of gloves must be set out in a calendar to ensure that they are replaced before they				
Retention:	become permeable to contaminants. Using contaminated gloves can be more dangerous than not using				
	gloves, as the contami				
Comments:			racks or deformat	tions are noticed and who	en dirt on the glove
	surface may reduce th				
Material:	Nitrile	Breakthrough time (min):	> 480	Material thickness (mm):	s 0,38
Material:	Chloroprene	Breakthrough time (min):	> 480	Material thickness (mm):	s 0,18



PPE: Full view safety goggles

"CE" mark category II. Full vision goggles for protection against dust, smoke, mists Features:

and vapours.

CEN standards: EN 165, EN 166, EN 167, EN 168

Visibility through the lenses must be optimal, for which they must be cleaned daily. The protective device Retention:

must be disinfected regularly according to the manufacturer's instructions.

Indications of wear can be: Yellowish discoloration of the lenses, scratches on the lens surface, fissures, Comments:

etc

Protective measures for the skin:

Protective clothing against chemical products PPE: "CE" mark category III. The clothing must fit well. The protection level must be

Features: determined as a function of the breakthrough time (BT. Breakthrough Time), which

indicates the time in which the chemical product breaks through the material.

EN 464,EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034 CEN standards:

To ensure constant protection, the manufacturer's instructions for cleaning and storage must be followed. Retention:

The design of the protective clothing must guarantee its correct and durable fit without slipping during the intended period of wear, taking into account the environmental factors and the movements and

Comments: postures that the wearer may adopt during his activity.

PPE: Safety shoes against chemical products and with antistatic properties

"CE" mark category III. read through the list of chemical products to which the shoe Features:

is resistant.

EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345 CEN standards:

For the correct care and storage of these safety shoes, it is essential to follow the manufacturer's specific Retention:

instructions. The shoes must be replaced immediately if they show any signs of wear.

The shoes must be cleaned regularly and dried when wet, but without bringing them too close to a heat Comments:

source to avoid abrupt temperature changes.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Color gel and characteristic odor

Colour: Colourless
Odour:Characteristic
Odour threshold:N.V./N.A.

pH:1.15

Melting point: N.V./N.A.
Boiling point: 188 °C
Flash point estimated: 291 °C
Evaporation rate: N.V./N.A.
Flammability (solid, gas): N.V./N.A.
Lower explosion limit: N.V./N.A.
Upper explosion limit: N.V./N.A.
Vapour pressure: 21.063

Density of vapour:N.V./N.A. Relative density:1.22 Solubility:N.V./N.A. Fat solubility: N.V./N.A. Water solubility: miscible

Partition factor (N-octanol / water): N.V./N.A. Auto-ignition temperature; : N.V./N.A. Decomposition temperature: N.V./N.A.

Viscosity: N.V./N.A.

Explosion properties: N.V./N.A.

Combustion promoting properties: N.V./N.A.

N.V./N.A.= Not Available/Not Applicable due to the nature of the product.

9.2 Other information.

Stick Point: N.V./N.A.

Scintillation counter: N.V./N.A. Kinematic viscosity: N.V./N.A.

N.V./N.A.= Not Available/Not Applicable due to the nature of the product.

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present any hazards resulting from reactivity.

10.2 Chemical stability.

Unstable on contact with:

- bases

10.3 Possibility of hazardous reactions.

Contact with bases can lead to neutralization.

10.4 Conditions to avoid.

- Avoid contact with bases.

10.5 Incompatible materials.

Avoid the following materials:

- bases

10.6 Hazardous decomposition products.

Depending on the conditions of use, the following products may arise:

- Corrosive vapours or gases

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SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

Frequent or prolonged contact with the product may lead to lipid depletion in the skin, subsequently to non-allergic contact dermatitis and thus to absorption of the product through the skin.

Toxicological information on the substances contained in the mixture.

Name	Acute toxicity				
Name	Туре	Try	Art	Value	
		LD50	Rata	1530 mg/kg bw [1]	
	Oral	[1] BIOFAX IndustrialBio-Test Laboratories, Inc, Data Sheets. Vol. 17-4/1970			
phosphoric acid,ortho-phosphoric acid		LD50	Conejo	2740 mg/kg bw [1]	
	Dermal	[1] BIOFAX Industrial Bio-Test Laboratories, Inc, Data Sheets. Vol. 17-4/1970			
		LC50	mouse	25.5 mg/m³ air [1]	
CAS No.: 7664-38-2 EC No: 231-633-2	Inhalative	[1] Toxicological Characteristics of Phosphoric Acid and Some of Its Chromium Salts Used as Binding Agents in the Production of Refractory Materials, 1983.			

(a) acute toxicity,

No conclusive data for classification.

(b) Corrosive/irritant effect on the skin,

Classified Product:

Skin Corrosive, Category 1B: Causes severe skin burns and eye damage.

(c) Serious eye damage/irritation,

Classified Product:

Serious eye damage, category 1: Causes serious eye damage.

(d) Respiratory/skin sensitisation,

No conclusive data for classification.

(e) germ cell mutagenicity,

No conclusive data for classification.

(f) carcinogenicity,

No conclusive data for classification.

(g) reproductive toxicity,

No conclusive data for classification.

(h) single exposure specific target organ toxicity,

No conclusive data for classification.

(i) specific target organ toxicity in case of repeated exposure,

No conclusive data for classification.

j) Aspiration hazard.

No conclusive data for classification.

SECTION 12: ENVIRONMENTAL DISCLOSURES.

12.1 Toxicity.

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Name		Ecotoxicity			
Name	Туре	Try	Art	Value	
	Fish	LC50	Oryzias latipes	75.1 mg/L (96 h) [1]	
	11311	[1] summaryof study report, 2005			
phosphoric acid,ortho-phosphoric acid	Aquatic	EC50	Daphnia magna	>100 mg/L (48 h) [1]	
	invertebrates	[1] study	report, 2010		
	Water plants	EC50	Desmodesmus subspicatus	>100 mg/L (72 h) [1]	
CAS No.: 7664-38-2 EC No: 231-633-2	·	[1] study	report, 2010		

12.2 Persistence and degradability.

There is no information on the biodegradability of the substances present.

There is no information available on the degradability of the substances present. No information is available on the persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available on the bioaccumulation of the substances contained in the product.

12.4 Mobility in soil.

No information is available on mobility in soil.

Do not allow the substance to enter drains or waterways.

Penetration into the soil must be avoided.

12.5 Results of PBT and vPvB assessment.

No information is available on the PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available on harmful effects on the environment.

SECTION 13: DISPOSAL INSTRUCTIONS.

13.1 Waste treatment process.

Disposal into drains or waterways is not permitted. Waste products and contaminated containers must be disposed of in accordance with the relevant local/national regulations.

For the handling of residual materials, the instructions of Directive 2008/98/EC must be followed.

SECTION 14: TRANSPORT INFORMATION.

Transport in compliance with the following standards: ADR/TPC for land transport, RID for transport by rail, IMDG for sea freight and ICAO/IATA for air transport.

Country: Road transport: ADR, Rail transport: RID. Transport documents: waybill and written instructions.

Sea: Marine transport: IMDG. Transport documents: Sea waybill. Air: Aircraft transport: IATA / ICAO. Transport documents: Air waybill.

14.1 UN number.

UN No: UN1805

14.2 UN proper shipping name.

Description:

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ADR: UN 1805, PHOSPHORIC ACID SOLUTION, 8, PG III, (E) IMDG: UN 1805, PHOSPHORIC ACID SOLUTION, 8, PG III ICAO/IATA: UN 1805, PHOSPHORIC ACID SOLUTION, 8, PG III

14.3 Transport hazard classes.

Class(es): 8

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Sea contamination: No

14.6 Special precautions for the user.

Sticker: 8



Hazard number: 80 ADR LQ: 5 L IMDG LQ: 5 L ICAO LQ: 1 L

Regulations regarding the transport of large quantities according to the ADR: Transport in large quantities not authorised according to the ADR.

Ship transport, FEm - Emergency signs (F - fire, S - spillage): F-A,S-B

Proceed according to point 6. IMDG code segregation group: 1 Acids

14.7 Carriage in bulk in accordance with Annex II of MARPOL and the IBC Code.

The product is not affected by shipping in bulk.

SECTION 15: LEGISLATION.

15.1 Safety, health and environmental regulations/specific legislation for the mixture.

The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of EU Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by the EU Regulation No. 528/2012 on the provision on the market and the use of organic products. The product is not affected by the procedures established by EU Regulation No. 649/2012 for the export and import of hazardous chemicals.

Pollutant class for water (Germany): WGK 1: slightly hazardous for water. (Self-assessment according to the AwSV regulation).

15.2 Chemical Safety Assessment.

No evaluation of the chemical safety of the product has been performed.

SECTION 16: OTHER INFORMATION.

Full text of H- sentences appearing in paragraph 3:

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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H319 Causes severe eye irritation.

Classification codes:

Eye Dam. 1 : Serious eye damage, category 1 Skin Corr. 1B : Skin corrosive, category 1B

For the correct handling of the product, it is recommended to carry out basic training on safety and hygiene in the workplace.

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AwSV: Ordinance on installations for handling substances hazardous to water.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, measure of exposure corresponding to a low risk that is considered to be

tolerable minimum should be considered.

DNEL: Derived No Effect Level, (derived concentration by which no effect occurs) Measure of the

Exposure to substances below which no adverse effects are foreseen.

EC50: Average effective concentration. PPE: Personal security equipment.

IATA: International Air Transport Association. ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50 %.

LD50: Lethal dose, 50 %.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

WGK: Water hazard classes.

Key references and data sources:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/

Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information provided in this safety data sheet has been prepared in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information contained in this safety data sheet is based on the current state of knowledge and the relevant national and EU legislation at the time of printing, while the working conditions at the place of use are beyond our knowledge and control. The product must not be used for purposes other than those expressly stated without prior and written instructions on its handling. Consequently, it is the user's sole responsibility to take measures to comply with the legal requirements.