

# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

## OTHG Fit Profi

Material number 94-1038-0000

## 1. Product and company identification

### Product identifier

Trade name: OTHG Fit Profi

### Relevant identified uses of the substance or mixture and uses advised against

General use: Cleaning agent

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

Company name: Friedhelm Selbach GmbH  
Street/POB-No.: Heisenbergstr. 5  
Postal Code, city: 42477 Radevormwald  
Germany  
E-mail: info@selbach.com, Internet: www.selbach.com  
Telephone: +49 (0) 2195 6801-0  
Telefax: +49 (0) 2195 6801-188

Department responsible for information:

Reiner Rogowski, Telefon: +49 (0)2195 6801-149  
Maximilian Schmidt, Telefon: +49 (0)2195 6801-179

### Emergency phone number

**Reiner Rogowski, Telefon: +49 (0)2195 6801-149**  
**Maximilian Schmidt, Telefon: +49 (0)2195 6801-179**

## 2. Hazards identification

### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: solid  
Form: Powder  
Color: white  
Odor: characteristic  
Classification: Corrosive to Metals - Category 1. Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1A.

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

May be corrosive to metals.  
Harmful if swallowed.  
Causes severe skin burns and eye damage.

Precautionary statements:

Keep out of reach of children.  
Keep only in original container.  
Do not breathe dust.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.  
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.  
Absorb spillage to prevent material damage.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

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### Hazards not otherwise classified

May form explosible dust-air mixture if dispersed.  
Special danger of slipping by leaking/spilling product.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Mixture of the substances listed below with non-hazardous additions

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 70693-62-8	Pentapotassium bis(peroxymonosulphate) bis(sulphate)	25 - 50 %	Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B.
CAS 1310-73-2	Sodium hydroxide	25 - 50 %	Corrosive to Metals - Category 1. Skin Corrosion - Category 1A.
CAS 7320-34-5	Tetrapotassium pyrophosphate	10 - 25 %	Eye Irritation - Category 2A.
CAS -	Sodium phosphonate	< 2.5 %	Corrosive to Metals - Category 1. Acute Toxicity - oral - Category 4.

## 4. First aid measures

General information: First aider: Pay attention to self-protection!  
Take off immediately all contaminated clothing.  
Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.  
If victim is at risk of losing consciousness, position and transport on their side.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Immediately get medical attention.

Following skin contact: Clean with plenty of water. If possible, also wash with polyethylene glycol 400. Cover with sterile dressing material to protect against infection. Immediately get medical attention.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water.  
Do not induce vomiting. Risk of perforation in case of vomiting!  
Immediately get medical attention. Do not try to neutralize.

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

Harmful if swallowed.  
Causes severe skin burns and eye damage.

### Information to physician

Treat symptomatically.  
Do not use sodium hydrogencarbonate (NaHCO<sub>3</sub>) or calcium carbonate (CaCO<sub>3</sub>) for neutralization, because forming carbon dioxide can cause stomach perforation.. Have the person slowly drink magnesium oxide suspended in water.

## 5. Fire fighting measures

Flash point/flash point range: Not applicable  
Auto-ignition temperature: Not self-igniting

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Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings. Extinguishing powder, carbon dioxide, water spray jet.  
In case of large fires: Water spray jet or foam.

Extinguishing media which must not be used for safety reasons:  
Full water jet

### Specific hazards arising from the chemical

Fires in the immediate vicinity may cause the development of dangerous vapors.  
In case of fire may be liberated: sulphur oxides, phosphorus compounds, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Contaminated fire-fighting water must be collected separately.  
Do not allow water used to extinguish fire to enter drains, ground or waterways.

## 6. Accidental release measures

Personal precautions: Do not breathe dust. Avoid generation of dust. Take off contaminated clothing and wash it before reuse. Avoid contact with the substance. Provide adequate ventilation.  
Wear appropriate protective equipment. Keep unprotected people away.

Environmental precautions: Do not allow to enter into ground-water, surface water or drains.  
If necessary notify appropriate authorities.

Methods for clean-up: Avoid generation of dust. Knock down dust with water spray jet.  
Take up mechanically, placing in appropriate containers for disposal.  
Wash spill area with plenty of water.  
Never return spills in original containers for re-use.  
Absorb spillage to prevent material damage.

Additional information: Special danger of slipping by leaking/spilling product.

## 7. Handling and storage

### Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe dust. Avoid dust formation.  
Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.  
Do not eat, drink or smoke when using this product.  
Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.  
When diluting, always add the product to water. Never add water to the product. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

May form explosible dust-air mixture if dispersed..  
Take precautionary measures against static discharge.  
Take standard precautions to prevent fire.

### Storage

Requirements for storerooms and containers:

Store in a well-ventilated place. Keep container tightly closed.  
Keep cool. Keep container dry. Keep only in original container.  
Protect against heat /sun rays. Protect from humidity and water.

Hints on joint storage:

Keep away from strong acids, leachates, heavy metal salts and reducing materials. Keep away from food, drink and animal feedingstuffs.

Further details:

May be corrosive to metals. Hydrogen may form upon contact with metals (danger of explosion!).

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## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	OTHG Fit Profi	USA: ACGIH: TWA 10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction) USA: ACGIH: TWA 3 mg/m <sup>3</sup> (Dust limit value, respirable fraction) USA: OSHA: TWA 15 mg/m <sup>3</sup> (Dust limit value, inhalable fraction) USA: OSHA: TWA 5 mg/m <sup>3</sup> (Dust limit value, respirable fraction)	
1310-73-2	Sodium hydroxide	USA: ACGIH: Ceiling USA: IDLH: TWA USA: NIOSH: Ceiling USA: OSHA: TWA	2 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>

### Engineering controls

Provide adequate ventilation, and local exhaust as needed.  
 Dust should be exhausted directly at the point of origin. Do not breathe dust.  
 See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
 Glove material: nitrile rubber or butyl caoutchouc (butyl rubber)  
 Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of dust formation: Dust mask or Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations: Do not breathe dust. Do not get in eyes, on skin, or on clothing.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Take off contaminated clothing and wash it before reuse.  
 Do not eat, drink or smoke when using this product.  
 Wash hands thoroughly after handling.  
 Work place should be equipped with a shower and an eye rinsing apparatus.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Form: Powder Color: white
Odor:	characteristic
Odor threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available

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Vapor density:	No data available
Density:	No data available
Water solubility:	at 68 °F: soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not self-igniting
Thermal decomposition:	No data available
Explosive properties:	May form explosible dust-air mixture if dispersed..

## 10. Stability and reactivity

Reactivity:	May be corrosive to metals.
Chemical stability:	Hygroscopic. Stable under recommended storage conditions.
Possibility of hazardous reactions:	Reacts with light metals: Formation of hydrogen. Reacts with water with development of heat.
Conditions to avoid:	Humidity. To avoid thermal decomposition, do not overheat.
Incompatible materials:	Strong acids, alkalis, reducing agent, heavy metal salts, Water, light metals.
Hazardous decomposition products:	No known hazardous decomposition products.
Thermal decomposition:	No data available

## 11. Toxicological information

### Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Acute Toxicity - oral - Category 4 = Harmful if swallowed.  
ATEmix (calculated): 1000 mg/kg < ATE <= 2000 mg/kg

Information about Pentapotassium bis(peroxymonosulphate) bis(sulphate):  
LD50 Rat, oral: 1000 - 2000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Information about Pentapotassium bis(peroxymonosulphate) bis(sulphate):  
LD50 Rabbit, dermal: >2000 mg/kg.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Information about Pentapotassium bis(peroxymonosulphate) bis(sulphate):  
LD50 Rabbit, inhalative: >5 mg/L/4h.

Skin corrosion/irritation: Skin Corrosion -  
Category 1A = Causes severe skin burns and eye damage.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

Information about Pentapotassium bis(peroxymonosulphate) bis(sulphate)  
Bacterial toxicity: EC50 Pseudomonas putida: 179 mg/L/ 18 h.  
Daphnia toxicity: Daphnia magna (Big water flea) (OECD 202):  
NOEC: 1.8 mg/L/ 24 h.  
LC50 5.3 mg/L/ 24 h.  
LC100: 10 mg/L/ 24 h.  
Fish toxicity: Danio rerio (zebrafish) (OECD 203):  
NOEC: 32 mg/L/ 96 h.  
LC50: > 32 mg/L/ 96 h.  
LC100: 56 mg/L/ 96 h.

Information about Sodium hydroxide:  
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 40.4 mg/L/24 h.  
Fish toxicity: LC50: 33 - 196 mg/L /96 h.

Further details: Information about Sodium phosphonate  
Biodegradability: ~ 50% (OECD 302 B)

## Mobility in soil

No data available

## Persistence and degradability

Further details: No data available

## Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste. Do not empty into drains.

### Package

Recommendation: Dispose of waste according to applicable legislation.

## 14. Transport information

### UN number

ADR/RID, IMDG, IATA-DGR: UN 3262

### UN proper shipping name

ADR/RID, IMDG, IATA-DGR: UN 3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
(Sodium hydroxide and Pentapotassium bis(peroxymonosulphate) bis(sulphate))

### Transport hazard class(es)

ADR/RID: Class 8, Code: C6  
IMDG: Class 8, Subrisk -  
IATA-DGR: Class 8

### Packing group

ADR/RID: II

### Environmental hazards

Marine pollutant: no

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

No data available



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### USA: Department of Transportation (DOT)

Identification number: UN3262  
Proper shipping name: UN 3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
(Sodium hydroxide and Pentapotassium bis(peroxymonosulphate) bis(sulphate))  
Hazard class or Division: 8  
Labels: 8  
Symbols: G  
Special Provisions: IB8, IP2, IP4, T3, TP33  
Packaging – Exceptions: 154  
Packaging – Non-bulk: 212  
Packaging – Bulk: 240  
Quantity limitations – Passenger aircraft / rail: 15 kg  
Quantity limitations – Cargo only: 50 kg  
Vessel stowage – Location: B  
Vessel stowage – Other: 52



### Sea transport (IMDG)

UN number: UN 3262  
Proper shipping name: UN 3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
(Sodium hydroxide and Pentapotassium bis(peroxymonosulphate) bis(sulphate))  
Class or division, Subsidiary risk: Class 8, Subrisk -  
EmS: F-A, S-B  
Special Provisions: 274  
Limited quantities: 1 kg  
Excepted quantities: E2  
Package - Instructions: P002  
Package - Provisions: -  
IBC - Instructions: IBC08  
IBC - Provisions: B4, B21  
Tank instructions - IMO: -  
Tank instructions - UN: T3  
Tank instructions - Provisions: TP33  
Stowage and handling: Category B.  
Segregation: SG35  
Properties and observations: Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.  
Marine pollutant: no  
Segregation group: 18

### Air transport (IATA)

UN/ID number: UN 3262  
Proper shipping name: UN 3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
(Sodium hydroxide and Pentapotassium bis(peroxymonosulphate) bis(sulphate))  
Class or division, Subsidiary risk: Class 8  
Hazard label: Corrosive  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y844 - Max. Net Qty/Pkg. 5 kg  
Passenger and Cargo Aircraft: Pack.Instr. 859 - Max. Net Qty/Pkg. 15 kg  
Cargo Aircraft only: Pack.Instr. 863 - Max. Net Qty/Pkg. 50 kg  
Special Provisions: A3 A803  
Emergency Response Guide-Code (ERG): 8L



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## 15. Regulatory information

### National regulations - U.S. Federal Regulations

Pentapotassium bis(peroxymonosulphate) bis(sulphate):	TSCA Inventory: listed TSCA HPVC: not listed
Sodium hydroxide:	TSCA Inventory: listed TSCA HPVC: not listed Clean Water Act: Hazardous Substances: RQ 1000 lbs. Other Environmental Laws: CERCLA: RQ 1000 lbs. NIOSH Recommendations: Occupational Health Guideline: 0565
Tetrapotassium pyrophosphate:	TSCA Inventory: listed TSCA HPVC: not listed

### National regulations - Great Britain

Hazchem-Code: 2X

## 16. Other information

Text for labeling:

Contains 25 - 50 % Pentapotassium bis(peroxymonosulphate) bis(sulphate), 25 - 50 % Sodium hydroxide, 10 - 25 % Tetrapotassium pyrophosphate, < 2.5 % Sodium phosphonate. Safety data sheet available on request.  
Contains Pentapotassium bis(peroxymonosulphate) bis(sulphate), Sodium hydroxide, Sodium phosphonate.  
Labeling for contents according to regulation (EC) No 648/2004, annex VII:  
- 30 % and more oxygen-based bleaching agents.  
- 15% or over but less than 30% phosphates  
- less than 5% phosphonates

Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)  
Fire: 0 (Minimal)  
Reactivity: 2 (Moderate)

HMIS Version III Rating:

Health: 3 (Serious)  
Flammability: 0 (Minimal)  
Physical Hazard: 2 (Moderate)  
Personal Protection: X = Consult your supervisor

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2
	X

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Abbreviations and acronyms:

- Acute Toxicity: Acute toxicity
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- AS/NZS: Australian Standards/New Zealand Standards
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- Corrosive to Metals: Corrosive to metals
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EC50: Effective Concentration 50%
- EN: European Standard
- EQ: Excepted quantities
- Eye Irritation: Eye irritation
- IATA: International Air Transport Association
- IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG Code: International Maritime Dangerous Goods Code
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- OSHA: Occupational Safety and Health Administration
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- Skin Corrosion: Skin corrosion
- TRGS: Technical Rules for Hazardous Substances
- UN: United Nations
- vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: UFI

Date of first version: 1/28/2009

**Department issuing data sheet**

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.