

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

SECTION 1: Identification

1.1 Product identifier

Trade name **Detaprofi Ferex**

Other means of identification

Alternative number(s) 8421015

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

Relevant identified uses cleaning agent
industrial uses
professional uses

Uses advised against do not use for squirting or spraying
do not use for products which come into direct contact with the skin
do not use for products which come into contact with foodstuffs
do not use for private purposes (household)

1.3 Details of the supplier of the safety data sheet

BÜFA Cleaning GmbH & Co. KG
August-Hanken-Str. 30
26125 Oldenburg

Telephone: +49 441 9317 0
Website: www.buefa-cleaning.de

Competent person responsible for the safety data sheet Regulatory Affairs

e-mail (competent person) sds-cleaning@buefa.de

1.4 Emergency telephone number

Emergency information service This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

Opening hours

Poison center					
Country	Name	Street	Postal code/city	Telephone	Telefax
Canada	Poison Centre Göttingen (Germany)			+49 551 19240	
China	化学事故应急咨询电话			0532-83889090	
Germany	Giftzentrale Göttingen			0551 19240	

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Annex	-	Hazard class and category	-	Hazard statement code(s)
2.16	substance or mixture	corrosive to metals	Cat. 1	(Met. Corr. 1) H290
3.2	skin	corrosion/irritation	Cat. 1B	(Skin Corr. 1B) H314
3.3	serious eye	damage/eye irritation	Cat. 1	(Eye Dam. 1) H318

Remarks

For full text of H-phrases: see SECTION 16.

Hazards not otherwise classified

Health hazards not otherwise classified (HHNOS): not assigned
 Physical hazards not otherwise classified (PHNOS): not assigned

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labeling (acc. to GHS)

Signal word **danger**

Pictograms

GHS05



Hazard statements

H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.

Precautionary statements

Precautionary statements - prevention

Do not breathe mist/vapours/spray.
 Wear eye protection/face protection.

Precautionary statements - response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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.

Precautionary statements - disposal

Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labelling

Ammoniumbifluoride, phosphoric acid

2.3 Other hazards

There is no additional information.

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

SECTION 3: Composition/information on ingredients





3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

This product does not meet the criteria for classification in any hazard class according to GHS.

Name of substance	Identifier	Wt%	Hazard class and category		Hazard statement	Pictograms
Ammoniumbifluoride	CAS No 1341-49-7 EC No 215-676-4	1 – < 5	3.10 3.2 3.3	Acute Tox. 3 Skin Corr. 1B Eye Dam. 1	H301 H314 H318	
phosphoric acid	CAS No 7664-38-2 EC No 231-633-2	1 – < 5	2.16 3.10 3.2 3.3	Met. Corr. 1 Acute Tox. 4 Skin Corr. 1B Eye Dam. 1	H290 H302 H314 H318	
2-phosphonobutane-1,2,4-tricarboxylic acid	CAS No 37971-36-1 EC No 253-733-5	1 – < 5	2.16 3.3	Met. Corr. 1 Eye Irrit. 2	H290 H319	
ammonium fluoride	CAS No 12125-01-8 EC No 235-185-9	< 1	3.10 3.1D 3.1I	Acute Tox. 3 Acute Tox. 3 Acute Tox. 3	H301 H311 H331	

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**water spray, BC-powder, carbon dioxide (CO₂)**Unsuitable extinguishing media**

water jet

5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

Hazardous combustion productsnitrogen oxides (NO_x)**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up**Advice on how to contain a spill**

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

Incompatible substances or mixtures

Observe compatible storage of chemicals.

Control of the effects

Protect against external exposure, such as

frost

Consideration of other advice

Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	phosphoric acid	7664-38-2	OEL (AB)		1		3				OHS Code
CA	phosphoric acid	7664-38-2	OEL (BC)		1		3				"BC Regulation"
CA	phosphoric acid	7664-38-2	OEL (ON-MoL)		1		3				MoL

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	phosphoric acid	7664-38-2	PEV/VEA		1		3				Regulation OHS

notation

- Ceiling-C Ceiling value is a limit value above which exposure should not occur.
- STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified).
- TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified).

Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	colorless
Odor	characteristic

Other physical and chemical parameters

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

pH (value)	3.5 – 4.5 (in aqueous solution: 1 % (V/V), 20 °C)
Melting point/freezing point	0 °C
Initial boiling point and boiling range	100 °C
Flash point	>100 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapor pressure	2.339 kPa at 20 °C
Density	1.03 kg/l at 20 °C
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	not explosive (GHS of the United Nations, annex 4)
Oxidizing properties	none

9.2 Other information

Solvent content	90.25 %
Solid content	9.75 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". substance or mixture corrosive to metals

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Ammoniumbifluoride	1341-49-7	oral	130 mg/kg
phosphoric acid	7664-38-2	oral	500 mg/kg
ammonium fluoride	12125-01-8	oral	130 mg/kg
ammonium fluoride	12125-01-8	inhalation: dust/mist	0.5 mg/l/4h

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity

- National Toxicology Program (United States): none of the ingredients are listed
- IARC Monographs none of the ingredients are listed
- OSHA Carcinogens (United States) none of the ingredients are listed

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ammoniumbifluoride	1341-49-7	LC50	421.4 mg/l	fish	96 h
phosphoric acid	7664-38-2	EC50	>100 mg/l	aquatic invertebrates	48 h
phosphoric acid	7664-38-2	ErC50	>100 mg/l	algae	72 h
2-phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1	LC50	>1,042 mg/l	fish	96 h
2-phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1	ErC50	>1,081 mg/l	algae	72 h
2-phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1	EC50	140 mg/l	algae	72 h
ammonium fluoride	12125-01-8	LC50	209 mg/l	fish	96 h
ammonium fluoride	12125-01-8	EC50	2.94 mg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
phosphoric acid	7664-38-2	EC50	>1,000 mg/l	microorganisms	3 h
2-phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1	LC50	>1,042 mg/l	fish	14 d
2-phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1	EC50	>1,071 mg/l	aquatic invertebrates	21 d
ammonium fluoride	12125-01-8	ErC50	90.4 mg/l	algae	10 d
ammonium fluoride	12125-01-8	EC50	1,300 mg/l	microorganisms	30 min

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1		-1.66	
ammonium fluoride	12125-01-8	53 – 58		

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	3264
14.2	UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
	Technical name (hazardous constituents)	Ammoniumbifluoride, phosphoric acid
14.3	Transport hazard class(es)	
	Class	8 (corrosive substances)
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user	
	There is no additional information.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	
	The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

- **International Maritime Dangerous Goods Code (IMDG)**

UN number	3264
Proper shipping name	3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (Ammoniumbifluoride, phosphoric acid)
Class	8
Packing group	III
Danger label(s)	8

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08



Special provisions (SP)	223, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-B
Stowage category	A
Segregation group	1 - Acids
• International Civil Aviation Organization (ICAO-IATA/DGR)	
UN number	3264
Proper shipping name	3264, Corrosive liquid, acidic, inorganic, n.o.s., (Ammoniumbifluoride, phosphoric acid)
Class	8
Packing group	III
Danger label(s)	8



Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304) none of the ingredients are listed

Specific Toxic Chemical Listings (EPCRA Section 313) none of the ingredients are listed

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
Ammoniumbifluoride	1341-49-7		1	100 (45,4)
phosphoric acid	7664-38-2		1	5000 (2270)
ammonium fluoride	12125-01-8		1	100 (45,4)

legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act.

Proposition 65 List of chemicals

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
phosphoric acid	7664-38-2		OEHHA RELs

Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Ammoniumbifluoride	1341-49-7				1.0 %
Ammoniumbifluoride	7664-41-7				1.0 %
phosphoric acid	7664-38-2				1.0 %
ammonium fluoride	12125-01-8				1.0 %
ammonium fluoride	7664-41-7				1.0 %

Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
phosphoric acid	7664-38-2	A, O	

legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH.
 O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division.

Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Ammoniumbifluoride	1341-49-7		CO
phosphoric acid	7664-38-2		CO
ammonium fluoride	12125-01-8		

legend

CO Corrosive.

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

Hazardous Substance List (Chapter 323) (PA-RTK)

Name of substance	CAS No	Classification
Ammoniumbifluoride	1341-49-7	E
phosphoric acid	7664-38-2	E
ammonium fluoride	12125-01-8	E

legend

E Environmental hazard.

Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
phosphoric acid	7664-38-2	T, F
phosphoric acid	7664-38-2	T, F
ammonium fluoride	12125-01-8	F

legend

F Flammability (NFPA®).

T Toxicity (ACGIH®).

Drug precursors, Controlled Substances Act (21 U.S.C. § 802) none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)

Category	Rating	Description
Chronic	/	None.
Health	3	Major injury likely unless prompt action is taken and medical treatment is given.
Flammability	1	Material that must be preheated before ignition can occur.
Physical hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

Category	Degree of hazard	Description
Flammability	1	Material that must be preheated before ignition can occur.
Health	3	Material that, under emergency conditions, can cause serious or permanent injury.
Instability	0	Material that is normally stable, even under fire conditions.
Special hazard		

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

Relevant European Union (EU) safety, health and environmental provisions

Classification according to GHS (1272/2008/EC, CLP)

Hazard class

skin corrosion/irritation
serious eye damage/eye irritation

Category Hazard class and category

1B (Skin Corr. 1B)
1 (Eye Dam. 1)

National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
CA	DSL/NDSL	all ingredients are listed or exempt from listing

Legend

DSL/NDSL Domestic Substances List (DSL)/Non-domestic Substances List (NDSL).
REACH Reg. REACH registered substances.
TSCA Toxic Substance Control Act.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Precautionary statements - storage		yes
2.2		Precautionary statements - storage: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
ACGIH®	American Conference of Governmental Industrial Hygienists
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DEP CODE	Department of Environmental Protection Code

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

Abbr.	Descriptions of used abbreviations
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	Substance or mixture corrosive to metals
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
NFPA®	National Fire Protection Association (United States)
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
PBT	Persistent, Bioaccumulative and Toxic

Detaprofi Ferex

Version number: GHS 1.1

Date of compilation: 2023-11-08

Abbr.	Descriptions of used abbreviations
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.