

acc. to Hazardous Products Regulations (HPR)

Detaprofi Tanex

Version number: GHS 2.1 Replaces version of: 2023-11-06 (GHS 1)

SECTION 1: Identification

1.1 Product identifier

BUFA

Trade name

Other means of identification

Alternative number(s)

8421012

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

Relevant identified uses

Uses advised against

industrial uses professional uses laundry detergent

Regulatory Affairs

sds-cleaning@buefa.de

Detaprofi Tanex

do not use for products which come into contact with foodstuffs do not use for private purposes (household)

revision: 2023-11-08

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

e-mail (competent person)

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			

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Annex	- Hazard class and category	-	Hazard statem	ent code(s)
2.16	substance or mixture corrosive to metals	Cat. 1	(Met. Corr. 1)	H290
3.3 3.7 3.9	serious eye damage/eye irritation reproductive toxicity specific target organ toxicity - repeated exposure	Cat. 1 Cat. 2 Cat. 2	(Eye Dam. 1) (Repr. 2) (STOT RE 2)	H318 H361f H373



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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

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labeling (acc. to GHS)

Signal word danger

Pictograms

GHS05, GHS08



Hazard statements

H290	May be corrosive to metals.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Precautionary statements - prevention

Do not handle until all safety precautions have been read and understood. Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapours/spray. Wear eye protection/face protection.

Precautionary statements - response

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.

Precautionary statements - storage

Store locked up. Store in a corrosion resistant container with a resistant inner liner.

Precautionary statements - disposal

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

Hazardous ingredients for labelling

diethanolamine, Isotridecanol, ethoxylated (>=2.5 EO)

2.3 Other hazards

There is no additional information.



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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%	Hazar	d class and cat- egory	Hazard statement	Pictograms
DL-malic acid	CAS No 617-48-1	10-<25	3.1I 3.3	Acute Tox. 4 Eye Irrit. 2	H332 H319	(!)
	EC No 210-514-9					•
2-phosphonobutane-1,2,4-tri- carboxylic acid	CAS No 37971-36-1	5 - < 10	2.16 3.3	Met. Corr. 1 Eye Irrit. 2	H290 H319	N R
	EC No 253-733-5					~
2-(2-butoxyethoxy)ethanol	CAS No 112-34-5	5 - < 10	3.3	Eye Irrit. 2	H319	
	EC No 203-961-6					
diethanolamine	CAS No 111-42-2	1 – < 5	3.10 3.2	Acute Tox. 4 Skin Irrit. 2	H302 H315 H318	
	EC No 203-868-0		3.3 3.7	Eye Dam. 1 Repr. 2	H361f H373	
			3.9	STOT RE 2		
Isotridecanol, ethoxylated (>=2.5 EO)	CAS No 69011-36-5	1 – < 5	3.10 3.3	Acute Tox. 4 Eye Dam. 1	H302 H318	
	EC No 931-138-8					
Hydrogen peroxide	CAS No 7722-84-1	<1	2.13 3.10	Ox. Liq. 2 Acute Tox. 4	H272 H302	
	EC No		3.1I	Acute Tox. 4	H332 H314	
	231-765-0		3.2 3.3	Skin Corr. 1B	H318 H335	
			3.3 3.8R	Eye Dam. 1 STOT SE 3		\sim

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.



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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.

- **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 products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

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



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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.

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.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
CA	diethanolamine	111-42-2	OEL (AB)		2					Н	OHS Code
CA	diethanolamine	111-42-2	OEL (BC)		2					Н	"BC Reg- ulation"
CA	diethanolamine	111-42-2	PEV/ VEA		1					H, iv	Regula- tion OHS
CA	diethanolamine	111-42-2	OEL (ON- MoL)		1					iv, H	MoL
CA	diethylene glycol monobutyl ether	112-34-5	OEL (ON- MoL)	10						iv	MoL
CA	hydrogen perox- ide	7722-84-1	OEL (AB)	1	1.4						OHS Code
CA	hydrogen perox- ide	7722-84-1	OEL (BC)	1							"BC Reg- ulation"
CA	hydrogen perox- ide	7722-84-1	OEL (ON- MoL)	1							MoL
CA	hydrogen perox- ide	7722-84-1	PEV/ VEA	1							Regula- tion OHS

notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur. H Absorbed through the skin.

iv Inhalable fraction and vapor.

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute 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.



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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	yellow
Odor	characteristic
Other physical and chemical parameters	
pH (value)	2.1 – 3 (in aqueous solution: 100 ^{kg} / _l , 20 °C)
Melting point/freezing point	<-70 °C at 1 atm
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	1.05 ^{kg} / _l at 20 °C
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	$>150~^{\circ}C$ (auto-ignition temperature (liquids and gases))
Viscosity	not determined



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	Explosive properties	not explosive (GHS of the United Nations, annex 4)
	Oxidizing properties	none
9.2	Other information	
	Solvent content	80.2 %
	Solid content	19.8 %

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

oxidizers

10.6 Hazardous decomposition products

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

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
DL-malic acid	617-48-1	inhalation: dust/mist	>1.306 ^{mg} / _l /4h
diethanolamine	111-42-2	oral	1,100 ^{mg} / _{kg}
Hydrogen peroxide	7722-84-1	oral	1,026 ^{mg} / _{kg}
Hydrogen peroxide	7722-84-1	inhalation: vapour	11 ^{mg} / _l /4h



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Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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

Suspected of damaging fertility. Shall not be classified as carcinogenic. Shall not be classified as germ cell mutagenic.

Carcinogenicity

• National Toxicology Program (United States):

• IARC Monographs

Name of substance	Name acc. to inventory	CAS No	Classification	Number
diethanolamine	diethanolamine	111-42-2	2B	
Hydrogen peroxide	hydrogen peroxide	7722-84-1	3	

legend

3

2B Possibly carcinogenic to humans.

Not classifiable as to carcinogenicity in humans.

• OSHA Carcinogens (United States)

none of the ingredients are listed

none of the ingredients are listed

Specific target organ toxicity (STOT)

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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
DL-malic acid	617-48-1	LC50	>100 ^{mg} / _l	fish	96 h
DL-malic acid	617-48-1	EC50	>100 ^{mg} / _l	algae	72 h
DL-malic acid	617-48-1	ErC50	>100 ^{mg} / _l	algae	72 h
2-phosphonobutane-1,2,4-tri- carboxylic acid	37971-36-1	LC50	>1,042 ^{mg} / _l	fish	96 h



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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-phosphonobutane-1,2,4-tri- carboxylic acid	37971-36-1	ErC50	>1,081 ^{mg} / _l	algae	72 h
2-phosphonobutane-1,2,4-tri- carboxylic acid	37971-36-1	EC50	140 ^{mg} / _l	algae	72 h
2-(2-butoxyethoxy)ethanol	112-34-5	LC50	1,300 ^{mg} / _l	fish	96 h
2-(2-butoxyethoxy)ethanol	112-34-5	EC50	>100 ^{mg} / _l	aquatic inverteb- rates	48 h
2-(2-butoxyethoxy)ethanol	112-34-5	ErC50	>100 ^{mg} / _l	algae	96 h
diethanolamine	111-42-2	LC50	460 ^{mg} / _l	fish	96 h
diethanolamine	111-42-2	EC50	30.1 ^{mg} / _l	aquatic inverteb- rates	48 h
Hydrogen peroxide	7722-84-1	LC50	16.4 ^{mg} / _l	fish	96 h
Hydrogen peroxide	7722-84-1	ErC50	1.38 ^{mg} / _l	algae	72 h

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
DL-malic acid	617-48-1	EC50	>300 ^{mg} / _l	microorganisms	3 h
2-phosphonobutane-1,2,4-tri- carboxylic acid	37971-36-1	LC50	>1,042 ^{mg} / _l	fish	14 d
2-phosphonobutane-1,2,4-tri- carboxylic acid	37971-36-1	EC50	>1,071 ^{mg} / _l	aquatic inverteb- rates	21 d
Hydrogen peroxide	7722-84-1	EC50	466 ^{mg} / _l	microorganisms	30 min

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
DL-malic acid	617-48-1	carbon dioxide generation	67.5 %	28 d
2-(2-butoxyethoxy)ethanol	112-34-5	oxygen depletion	85 %	28 d
diethanolamine	111-42-2	oxygen depletion	5 %	5 d
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DOC removal	82 %	28 d

Bioaccumulative potential 12.3

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
DL-malic acid	617-48-1		-1.27 (pH value: ~2.3, 24 °C)	
2-phosphonobutane-1,2,4-tri- carboxylic acid	37971-36-1		-1.66	
2-(2-butoxyethoxy)ethanol	112-34-5		1 (pH value: 7, 20 °C)	
diethanolamine	111-42-2	2.69	-2.46 (25 °C)	
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	232.5		



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12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- 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	1760
14.2	UN proper shipping name	Corrosive liquid, n.o.s.
	Technical name (hazardous constituents)	2-phosphonobutane-1,2,4-tricarboxylic acid, Hy- drogen peroxide
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 danger- ous 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



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• International Maritime Dangerous	Goods Code (IMDG)
UN number	1760
Proper shipping name	1760, CORROSIVE LIQUID, N.O.S., (2-phosphon- obutane-1,2,4-tricarboxylic acid, Hydrogen pero: ide)
Class	8
Packing group	III
Danger label(s)	8
8	
Special provisions (SP)	223, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-B
Stowage category	A
 International Civil Aviation Organi 	zation (ICAO-IATA/DGR)
UN number	1760
Proper shipping name	1760, Corrosive liquid, n.o.s., (2-phosphonobu- tane-1,2,4-tricarboxylic acid, Hydrogen peroxide
Class	8
Packing group	III
Danger label(s)	8
Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	1 L



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SECTION 15: Regulatory information

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

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

Name of substance	CAS No	Notes	Reportable quantity (pounds)	Threshold planning quantity (pounds)
Hydrogen peroxide	7722-84-1	f	1,000	1000

legend

f

Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.).

Specific Toxic Chemical Listings (EPCRA Section 313)

Name of substance	CAS No	Remarks	Effective date
diethanolamine	111-42-2		1987-01-01

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)
diethanolamine	111-42-2		3	100 (45,4)

legend

"3" indicates that the source is section 112 of the Clean Air Act.

Proposition 65 List of chemicals

Name of substance	CAS No	Remarks	Type of the toxicity
diethanolamine	111-42-2		cancer

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
2-(2-butoxyethoxy)ethanol			CA TACs
diethanolamine	111-42-2		CA TACs IARC Carcinogens - 2B OEHHA RELs Prop 65

Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE		De Minimis Concen- tration Threshold
diethanolamine	111-42-2			1.0 %
2-(2-butoxyethoxy)ethanol		1022		1.0 %



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Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
diethanolamine	111-42-2	А	

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.

Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
diethanolamine	111-42-2		СО
2-(2-butoxyethoxy)ethanol			
Hydrogen peroxide	7722-84-1		CO MU R3

legend

CO Corrosive.

MU Mutagenic.

R3 Reactive - Third Degree.

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

Name of substance	CAS No	Classification
diethanolamine	111-42-2	E
2-(2-butoxyethoxy)ethanol		E
Hydrogen peroxide	7722-84-1	E

legend

E Environmental hazard.

Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
diethanolamine	111-42-2	T, F
Hydrogen peroxide	7722-84-1	T, F

legend

F Flammability (NFPA®).

T Toxicity (ACGIH®).

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

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)



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Category	Rating	Description
Chronic	*	Chronic (long-term) health effects may result from repeated overexposure.
Health	3	Major injury likely unless prompt action is taken and medical treatment is given.
Flammability	0	Material that will not burn under typical fire conditions.
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	0	Material that will not burn under typical fire conditions.
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		

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

Classification according to GHS (1272/2008/EC, CLP)			
Hazard class	Category	Hazard class and category	
substance or mixture corrosive to metals serious eye damage/eye irritation	1 1	(Met. Corr. 1) (Eye Dam. 1)	

National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed or exempt from listing
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-rel- evant
1.2	Relevant identified uses: general use	Relevant identified uses: industrial uses professional uses laundry detergent	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety- evan
1.2	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 con- tact with foodstuffs do not use for private purposes (household)	Uses advised against: do not use for products which come into con- tact with foodstuffs do not use for private purposes (household)	yes
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible dam- age to the skin; namely, visible necrosis through the epidermis and into the dermis. Delayed or immediate effects can be expected after short or long-term exposure.	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure.	yes
2.2		Hazard statements: change in the listing (table)	yes
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: change in the listing (table)	yes
4.1	Following inhalation: If breathing is irregular or stopped, immedi- ately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.	Following inhalation: If breathing is irregular or stopped, immedi- ately seek medical assistance and start first aid actions. Provide fresh air.	yes
5.2	Special hazards arising from the substance or mixture	Special hazards arising from the substance or mixture: Substance or mixture corrosive to metals.	yes
7.1	Handling of incompatible substances or mix- tures		yes
7.1	Keep away from: caustic solutions		yes
7.2		• Corrosive conditions: Store in corrosive resistant container with a res- istant inner liner.	yes
7.2		Consideration of other advice	yes
7.2		Packaging compatibilities: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.	yes
9.1	pH (value): 2 – 3 (in aqueous solution: 100 ^{kg} / _l , 20 °C)	pH (value): 2.1 – 3 (in aqueous solution: 100 ^{kg} / _l , 20 °C)	yes
10.1	Reactivity: Concerning incompatibility: see below "Condi- tions to avoid" and "Incompatible materials".	Reactivity: Concerning incompatibility: see below "Condi- tions to avoid" and "Incompatible materials". substance or mixture corrosive to metals	yes
11.1	Skin corrosion/irritation: Causes severe skin burns and eye damage.	Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin.	yes



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Safety Data Sheet acc. to Hazardous Products Regulations (HPR)

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-re evant
14.1	UN number: 3265 not subject to transport regulations	UN number: 1760	yes
14.2	UN proper shipping name: Corrosive liquid, acidic, organic, n.o.s. not relevant	UN proper shipping name: Corrosive liquid, n.o.s.	yes
14.7	• International Maritime Dangerous Goods Code (IMDG): not subject to IMDG	• International Maritime Dangerous Goods Code (IMDG)	yes
14.7		UN number: 1760	yes
14.7		Proper shipping name: 1760, CORROSIVE LIQUID, N.O.S., (2-phosphon- obutane-1,2,4-tricarboxylic acid, Hydrogen per- oxide)	yes
14.7		Class: 8	yes
14.7		Packing group: III	yes
14.7		Danger label(s): 8	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Special provisions (SP): 223, 274	yes
14.7		Excepted quantities (EQ): E1	yes
14.7		Limited quantities (LQ): 5 L	yes
14.7		EmS: F-A, S-B	yes
14.7		Stowage category: A	yes
14.7	• International Civil Aviation Organization (ICAO- IATA/DGR): not subject to ICAO-IATA	• International Civil Aviation Organization (ICAO-IATA/DGR)	yes
14.7		UN number: 1760	yes
14.7		Proper shipping name: 1760, Corrosive liquid, n.o.s., (2-phosphonobu- tane-1,2,4-tricarboxylic acid, Hydrogen perox- ide)	yes
14.7		Class: 8	yes
14.7		Packing group: III	yes
14.7		Danger label(s): 8	yes
14.7		Danger label(s): change in the listing (table)	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
14.7		Special provisions (SP): A3	yes
14.7		Excepted quantities (EQ): E1	yes
14.7		Limited quantities (LQ): 1 L	yes
15.1		Classification according to GHS (1272/2008/EC, CLP): change in the listing (table)	yes
16		Abbreviations and acronyms: 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
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 identi- fier 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



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Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IARC Mono- graphs	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 Regula- tion 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 Edi- tion
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
Ox. Liq.	Oxidizing liquid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contam- inants (Quebec)
Repr.	Reproductive toxicity
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative



acc. to Hazardous Products Regulations (HPR)

Detaprofi Tanex

Version number: GHS 2.1 Replaces version of: 2023-11-06 (GHS 1) revision: 2023-11-08

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
H272	May intensify fire; oxidizer.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

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