Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version number: GHS 7.0
Replaces version of: 2023-11-13 (GHS 6)

Revision: 2024-02-22

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name **PROMAT CHEMICALS ALLZWECKREINIGER CITRO**

Unique formula identifier (UFI) A4D0-J04K-000K-32WK

Article number
4000 355700 (1000 ml)
4000 355701 (5 Ltr.)
4000 355702 (10 Ltr.)

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

Relevant identified uses
General use
Washing and cleaning product

1.3 Details of the supplier of the safety data sheet

NORDWEST Handel AG
Robert-Schuman-Straße 17
44263 Dortmund
Germany

Telephone: +49 (0)231 2222-3001
Telefax: +49 (0)231 2222-3099
e-mail: sdb@nordwest.com
Website: www.nordwest.com

e-mail (competent person) sdb@nordwest.com

1.4 Emergency telephone number

Poison centre			
Country	**Name**	**Postal code/city**	**Telephone**
Austria	Vergiftungsinformationszentrale (VIZ)		**+43 (0)1 406 43 43**
Germany	Gemeinsamen Giftinformationszentrum (GGIZ) der Laender Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thueringen c/o HELIOS Klinikum Erfurt	99089 Erfurt	**+49-361-730730**
Switzerland	Tox Info Suisse		**+145, 24h oder +41 44 251 51 51**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word warning

Pictograms

GHS07

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Identifier	Name of substance	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits
CAS No 111-76-2 EC No 203-905-0 Index No 603-014-00-0 REACH Reg. No 01-2119475108-36-xxxx	2-butoxyethanol	1 – < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		IOELV	
CAS No 497-19-8 EC No 207-838-8 Index No 011-005-00-2 REACH Reg. No 01-2119485498-19-xxxx	sodium carbonate	1 – < 5	Eye Irrit. 2 / H319			
CAS No 25155-30-0 EC No 246-680-4 REACH Reg. No 01-2120088038-51-xxxx	sodium dodecylbenzenesulfonate	1 – < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335			
CAS No 68439-51-0 EC No 931-986-9	Alkohole, C12-14, ethoxyliert, propoxyliert	1 – < 5	Aquatic Chronic 3 / H412			

Notes
IOELV: Substance with a community indicative occupational exposure limit value

Hazardous ingredients, Specific Conc. Limits, M-factors, ATE

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
2-butoxyethanol	-	-	1,414 $^{mg}/_{kg}$ 1,100 $^{mg}/_{kg}$ 11 $^{mg}/_{l}$/4h	oral dermal inhalation: vapour
sodium dodecylbenzenesulfonate	-	-	500 $^{mg}/_{kg}$	oral

Remarks

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. 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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

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. Co-ordinate 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 vapours/dust/spray/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.

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

Control of effects

Protect against external exposure, such as

frost

Packaging compatibilities

Keep only in original container.

Storage class (LGK) TRGS 510

LGK 12 (non-combustible liquids)

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
DE	2-butoxyethanol	111-76-2	MAK	10	49	20	98			H, DE-MAK-1	DFG
DE	2-butoxyethanol	111-76-2	AGW	10	49	20	98			H, Y	TRGS 900
EU	2-butoxyethanol	111-76-2	IOELV	20	98	50	246			H	2000/39/EC

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
DE-MAK-1	MAK value for the sum of the air concentrations of 2-butoxyethanol and 2-butoxyethyl acetate.
H	absorbed through the skin
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)
Y	a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
DE	2-butoxyethanol	2-butoxyacetic acid	hydr, crea	BAT	150 mg/l	DFG
DE	2-butoxyethanol	2-butoxyacetic acid	hydr, crea	BLV	150 mg/l	TRGS 903

Notation

crea	creatinine
hydr	hydrolysis

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-butoxyethanol	111-76-2	DNEL	246 mg/m³	human, inhalatory	worker (industry)	acute - local effects
2-butoxyethanol	111-76-2	DNEL	89 mg/kg	human, dermal	worker (industry)	acute - systemic effects
2-butoxyethanol	111-76-2	DNEL	1,091 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
2-butoxyethanol	111-76-2	DNEL	125 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	98 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
sodium carbonate	497-19-8	DNEL	10 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	acute - local effects
sodium dodecylbenzenesulfonate	25155-30-0	DNEL	80 mg/kg	human, dermal	worker (industry)	acute - systemic effects
sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
sodium dodecylbenzenesulfonate	25155-30-0	DNEL	57.2 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
2-butoxyethanol	111-76-2	PNEC	8.8 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	463 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	34.6 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	2.33 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	9.1 $^{mg}/_{l}$	aquatic organisms	water	intermittent release
2-butoxyethanol	111-76-2	PNEC	0.88 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	0.693 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	1 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	50 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	27.5 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	2.75 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	20 $^{mg}/_{kg}$	aquatic organisms	water	short-term (single instance)
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	0.654 $^{mg}/_{l}$	aquatic organisms	water	intermittent release

Relevant PNECs of components						
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
sodium dodecylbenzenesulfonate	25155-30-0	PNEC	25 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/face protection

Use protective eyewear to guard against splash of liquids.

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.

Type of material

NR: natural rubber, latex, FKM: fluoro-elastomer

Breakthrough times of the glove material

>480 minutes (permeation: level 6)

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

Physical state	liquid
Colour	not determined
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	100 °C at 1.013 bar
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	67 °C at 1,013 hPa
Auto-ignition temperature	230 °C
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	
Water solubility	miscible in any proportion
Partition coefficient	
Partition coefficient n-octanol/water (log value)	this information is not available
Vapour pressure	0.023 bar at 20 °C

Density and/or relative density

Density	1.025 $^{g}/_{ml}$ (calculated value)
Relative vapour density	information on this property is not available

9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics

Miscibility	Completely miscible with water.
Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

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.

10.5 Incompatible materials

Oxidisers

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
2-butoxyethanol	111-76-2	oral	1,414 $^{mg}/_{kg}$
2-butoxyethanol	111-76-2	dermal	1,100 $^{mg}/_{kg}$
2-butoxyethanol	111-76-2	inhalation: vapour	11 $^{mg}/_{l}$/4h
sodium dodecylbenzenesulfonate	25155-30-0	oral	500 $^{mg}/_{kg}$

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

12.7 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/packagings

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

Relevant provisions relating to waste

List of wastes, (Recommendations)

Product

20 01 29* Detergents containing hazardous substances

Product residues

15 01 10* Packaging containing residues of or contaminated by hazardous substances

Packagings

15 01 02 Plastic packaging

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 or ID number**	
	ADN	UN 9003
14.2	**UN proper shipping name**	
	ADN	SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C
14.3	**Transport hazard class(es)**	
	ADN	9
14.4	**Packing group**	not assigned
14.5	**Environmental hazards**	non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information

Not subject to ADR. Not subject to RID.

International Maritime Dangerous Goods Code (IMDG) Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	CAS No	Listed in	Remarks
sodium dodecylbenzenesulfonate		a)	
sodium carbonate		a)	

Legend
a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation 648/2004/EC on detergents

Labelling of contents

Constituents	Weight % content (or range)
anionic surfactants non-ionic surfactants EDTA and salts thereof	less than 5 %
perfumes	

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water hazard class) 1 slightly hazardous to water

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		5 – < 10 wt%	0.5 $^{kg}/_{h}$	50 $^{mg}/_{m^3}$	3)

Notation
3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed

Legend
REACH Reg. REACH registered substances

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
3.2		Hazardous ingredients, Specific Conc. Limits, M-factors, ATE: change in the listing (table)	yes
3.2		Remarks: For full text of abbreviations: see SECTION 16.	yes
12.5	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations.
2000/39/EC.	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC.
Acute Tox.	Acute toxicity.
ADN.	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR.	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).
AGW.	Workplace exposure limit.
Aquatic Chronic.	Hazardous to the aquatic environment - chronic hazard.
ATE.	Acute Toxicity Estimate.
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, labelling and packaging of substances and mixtures.
DFG.	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
DNEL.	Derived No-Effect Level.
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).
ED.	Endocrine disruptor.
EINECS.	European Inventory of Existing Commercial Chemical Substances.
ELINCS.	European List of Notified Chemical Substances.
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.
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.
Index No.	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
IOELV.	Indicative occupational exposure limit value.
LGK.	Lagerklasse (storage class according to TRGS 510, Germany).
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
Ppm.	Parts per million.
REACH.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
Skin Corr.	Corrosive to skin.
Skin Irrit.	Irritant to skin.
STEL.	Short-term exposure limit.
STOT SE.	Specific target organ toxicity - single exposure.
SVHC.	Substance of Very High Concern.
TRGS.	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).

Abbr.	Descriptions of used abbreviations.
TRGS 900.	Arbeitsplatzgrenzwerte (TRGS 900).
TRGS 903.	Biologische Grenzwerte (TRGS 903).
TWA.	Time-weighted average.
VPvB.	Very Persistent and very Bioaccumulative.

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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)

H302.	Harmful if swallowed.
H312.	Harmful in contact with skin.
H315.	Causes skin irritation.
H318.	Causes serious eye damage.
H319.	Causes serious eye irritation.
H332.	Harmful if inhaled.
H335.	May cause respiratory irritation.
H412.	Harmful to aquatic life with long lasting effects.

Disclaimer

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