

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

CHAMPION RAPID FILTER CLEANER

Version 4.0

Print Date 2023/08/11

Revision date / valid from 2023/08/11

MSDS code: MAAE117

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

1.1. Product identifier

Trade name : CHAMPION RAPID FILTER CLEANER

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

Use of the Substance/Mixture : Swimming pool water treatment, Filter and membrane cleaning agent.

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK Limited
Alpha House, Lawnswood Business Park
GB LS16 6QY Leeds

Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
+44 (0) 1865 407333 (N.C.E.C. Culham)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation S.I. 2019/720 (GB CLP)

Regulation S.I. 2019/720 (GB CLP)

Hazard class	Hazard category	Target Organs	Hazard statements
Serious eye damage	Category 1	---	H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects


Human Health : See section 11 for toxicological information.

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Physical and chemical hazards : See section 9/10 for physicochemical information.
 Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation S.I. 2019/720 (GB CLP)

Hazard symbols : 

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements

Prevention : P280 Wear eye protection/ face protection.

Response : P305 + P351 + P338 + P310 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.

Hazardous components which must be listed on the label:

|| • Alcohols, C6-12, ethoxylated

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (Regulation S.I. 2019/720 (GB CLP))	
		Hazard class / Hazard category	Hazard statements
Tetrapotassium pyrophosphate CAS-No. : 7320-34-5 EC-No. : 230-785-7 EU REACH- : 01-2119489369-18-xxxx Reg. No.	>= 1 - < 10	Eye Irrit.2	H319
Alcohols, C6-12, ethoxylated CAS-No. : 68439-45-2	>= 3 - < 10	Acute Tox.4 Oral Eye Dam.1	H302 H318
Acute toxicity estimate Acute oral toxicity: 500 mg/kg			
2-butoxyethanol Index-No. : 603-014-00-0 CAS-No. : 111-76-2 EC-No. : 203-905-0 EU REACH- : 01-2119475108-36-xxxx Reg. No.	>= 1 - < 10	Acute Tox.4 Oral Acute Tox.4 Inhalation Skin Irrit.2 Eye Irrit.2	H302 H332 H315 H319
Acute toxicity estimate Acute oral toxicity: 1200 mg/kg Acute inhalation toxicity (vapour): 11 mg/l Acute dermal toxicity: 2000.01 mg/kg			
trisodium nitrilotriacetate Index-No. : 607-620-00-6 CAS-No. : 5064-31-3 EC-No. : 225-768-6 EU REACH- : 01-2119519239-36-xxxx Reg. No.	>= 0.1 - < 1	Acute Tox.4 Oral Eye Irrit.2 Carc.2	H302 H319 H351
specific concentration limit Carc. 2; H351 >= 5 % Acute toxicity estimate Acute oral toxicity: 1740 mg/kg Acute inhalation toxicity (dust/mist): 5.01 mg/l Acute dermal toxicity: 10000.01 mg/kg			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

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4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately.
If inhaled	: Remove to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. If symptoms persist, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious, drink plenty of water. If symptoms persist, call a physician.
Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: Causes serious eye damage. See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Incomplete combustion may form toxic pyrolysis products.
Hazardous combustion products	: Carbon monoxide, Carbon dioxide (CO ₂)

5.3. Advice for firefighters

Special protective	: In the event of fire, wear self-contained breathing
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equipment for firefighters : apparatus. Wear personal protective equipment.
 Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on personal protective equipment.
 See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid the formation of mists. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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Further information on storage conditions : Keep tightly closed in a dry and cool place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Inhalation	:	2.79 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	0.68 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	> 70 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	0.05 mg/l
Marine water	:	0.005 mg/l
Intermittent releases	:	0.5 mg/l
Sewage treatment plant (STP)	:	50 mg/l

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Inhalation	:	98 mg/m ³
DNEL		
Workers, Acute - systemic effects, Inhalation	:	1091 mg/m ³

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DNEL	Workers, Acute - local effects, Inhalation	: 246 mg/m ³
DNEL	Workers, Long-term - systemic effects, Skin contact	: 125 mg/kg bw/day
DNEL	Workers, Acute - systemic effects, Skin contact	: 89 mg/kg bw/day
DNEL	Consumers, Long-term - systemic effects, Inhalation	: 59 mg/m ³
DNEL	Consumers, Acute - systemic effects, Inhalation	: 426 mg/m ³
DNEL	Consumers, Acute - local effects, Inhalation	: 147 mg/m ³
DNEL	Consumers, Long-term - systemic effects, Skin contact	: 75 mg/kg bw/day
DNEL	Consumers, Acute - systemic effects, Skin contact	: 89 mg/kg bw/day
DNEL	Consumers, Long-term - systemic effects, Ingestion	: 6.3 mg/kg bw/day
DNEL	Consumers, Acute - systemic effects, Ingestion	: 26.7 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	: 8.8 mg/l
Marine water	: 0.88 mg/l
Intermittent use/release	: 26.4 mg/l
Sewage treatment plant (STP)	: 463 mg/l
Fresh water sediment	: 34.6 mg/kg d.w.
Marine sediment	: 3.46 mg/kg d.w.
Soil	: 2.33 mg/kg d.w.
Secondary poisoning	: 20 mg/kg food

Other Occupational Exposure Limit Values

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UK. EH40 Workplace Exposure Limits (WELs), as amended, Skin designation:
Can be absorbed through the skin.

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
20 ppm, 98 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
50 ppm, 246 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Skin designation:
Can be absorbed through the skin.

UK. EH40 Workplace Exposure Limits (WELs), as amended, Time Weighted Average (TWA):
25 ppm, 123 mg/m³

UK. EH40 Workplace Exposure Limits (WELs), as amended, Short Term Exposure Limit (STEL):
50 ppm, 246 mg/m³, (15 minutes)

ELV (IE), Time Weighted Average (TWA):
20 ppm, 98 mg/m³
Indicative OELV

ELV (IE), Skin designation:
Can be absorbed through the skin.

ELV (IE), Short Term Exposure Limit (STEL):
50 ppm, 246 mg/m³, (15 minutes)
Indicative OELV

Biological Exposure Indices

UK. EH40 Biological Monitoring Guidance Values (BMGVs), as amended, Butoxyacetic acid, Creatinine in urine
240 mmol/mol; Sampling time: End of shift.

Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Inhalation	:	3.5 mg/m ³

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DNEL		
Workers, Acute - systemic effects, Inhalation	:	5.25 mg/m ³
DNEL		
Consumers, Acute - systemic effects, Inhalation	:	1.75 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	0.5 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	0.93 mg/l
Marine water	:	0.093 mg/l
Intermittent releases	:	0.915 mg/l
Sewage treatment plant (STP)	:	540 mg/l
Fresh water sediment	:	3.64 mg/kg
Marine sediment	:	0.364 mg/kg
Soil	:	0.182 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).
Respiratory protection complying with EN 141.
For emergency conditions, use an approved positive- pressure self-contained breathing apparatus.

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.
The following materials are suitable:
butyl-rubber
PVC gloves

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Break through time : > 8 hrs
Glove thickness : 0.5 mm

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Wear personal protective equipment.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : liquid

Physical state : liquid

Colour : blue

Odour : No data available

Odour Threshold : No data available

Freezing point : No data available

Boiling point : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Self-Accelerating decomposition temperature (SADT) : No data available

pH : ca. 9

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Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Dispersion Stability	:	No data available
Vapour pressure	:	No data available
Relative density	:	ca. 1.012
Density	:	No data available
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid : Heat

10.5. Incompatible materials

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Materials to avoid : Strong oxidising agents, Strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products : In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Data for the product

Acute toxicity

Oral

Acute toxicity estimate : > 2000 mg/kg) (Calculation method)

Inhalation

Acute toxicity estimate : > 20 mg/l (4 h; vapour) (Calculation method)

Dermal

No data available

Irritation

Skin

No data available

Eyes

Result : Causes serious eye damage.

Sensitisation

No data available

CMR effects

CMR Properties

Carcinogenicity : No data available

Mutagenicity : No data available

Reproductive toxicity : No data available

Specific Target Organ Toxicity

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Single exposure

No data available

Repeated exposure

No data available

Other toxic properties

Repeated dose toxicity

No data available

Aspiration hazard

No data available

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Acute toxicity

Oral

|| LD50 : > 2000 mg/kg (Mouse)

Inhalation

|| LC50 : > 1.1 mg/l (Rat; 4 h) (OECD Test Guideline 403)

Dermal

|| LD50 : > 2000 mg/kg (Rabbit) (OECD Test Guideline 402)

Irritation

Skin

|| Result : (Rabbit; No skin irritation) (OECD Test Guideline 404)

Eyes

|| Result : Causes serious eye irritation. (Rabbit) (OECD Test Guideline 405)

Sensitisation

|| Result : (Does not cause respiratory sensitisation.)

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CMR effects

CMR Properties

Carcinogenicity	:	No data available
Mutagenicity	:	It is not considered mutagenic.
Teratogenicity	:	It is not considered teratogenic.
Reproductive toxicity	:	It is not considered toxic for reproduction.

Specific Target Organ Toxicity

Single exposure

Remarks	:	No data available
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Repeated exposure

Remarks	:	No data available
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Other toxic properties

Aspiration hazard

	:	Not applicable,
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Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Acute toxicity

Oral

	:	No data available
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Inhalation

	:	No data available
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Dermal

	:	No data available
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Irritation

Skin

Result	:	No data available
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Eyes

|| Result : No data available

Sensitisation

|| Result : No data available

CMR effects

CMR Properties

|| Carcinogenicity : No data available
 || Mutagenicity : No data available
 || Reproductive toxicity : No data available

Specific Target Organ Toxicity

Single exposure

|| Remarks : No data available

Repeated exposure

|| Remarks : No data available

Other toxic properties

Aspiration hazard

|| No data available,

|| Component: 2-butoxyethanol CAS-No. 111-76-2

Acute toxicity

Oral

|| Acute toxicity estimate : 1200 mg/kg) (Acute toxicity estimate according to Regulation (EC) No. 1272/2008)
 || LD50 : 1414 mg/kg (Guinea pig, male and female) (OECD Test Guideline 401)

Inhalation

|| LC0 : > 3.1 mg/l (Guinea pig; 1 h; vapour) No mortality observed at this dose.

Dermal

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|| LD50 : > 2000 mg/kg (Guinea pig, male and female) (OECD Test Guideline 402)

Irritation

Skin

|| Result : Skin irritation (Rabbit; 4 h) (Directive 67/548/EEC, Annex V, B.4.)

Eyes

|| Result : Eye irritation (Rabbit; 24 h) (OECD Test Guideline 405)

Sensitisation

|| Result : not sensitizing (Maximisation Test; Dermal; Guinea pig) (OECD Test Guideline 406)

CMR effects

Carcinogenicity

|| NOAEC : (Rat, male and female)(Inhalation; 2 years)(OECD Test Guideline 451)Not expected to be carcinogenic.
: 125 ppm
(Mouse, male and female)(Inhalation; 2 years)(OECD Test Guideline 451)

CMR Properties

|| Carcinogenicity : Animal testing did not show any carcinogenic effects.
Mutagenicity : In vitro tests did not show mutagenic effects
In vivo tests did not show mutagenic effects
Teratogenicity : Animal testing did not show any effects on foetal development.
Reproductive toxicity : Some effects on the reproduction have been observed on the animal only at high doses where toxic effects were induced to the parents.

Genotoxicity in vitro

|| Result : negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471)
negative (In vitro gene mutation study in mammalian cells; CHO (Chinese Hamster Ovary) cells; with and without metabolic activation) (OECD Test Guideline 476)
negative (Chromosome aberration test in vitro; CHO (Chinese Hamster Ovary) cells; with and without metabolic activation) (OECD Test Guideline 473)

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Genotoxicity in vivo

Result : negative (In vivo micronucleus test; Mouse, B6C3F1, male) (intraperitoneal;) (OECD Test Guideline 474)
negative (In vivo micronucleus test; Rat, male) (intraperitoneal;) (OECD Test Guideline 474)

Teratogenicity

NOAEL Maternal : 30 mg/kg bw/day
NOAEL Teratog. : 200 mg/kg bw/day
NOAEL Develop. : 100 mg/kg bw/day
(Rat, Fischer F344)(Oral; 1 Times per day)(OECD Test Guideline 414)
NOAEL Maternal : 50 ppm
NOAEL Develop. : 100 ppm
(Rat, Fischer F344)(inhalation (vapour); 6 hours/day)(OECD Test Guideline 414)
NOAEL Maternal : 50 ppm
NOAEL Develop. : 100 ppm
(Rabbit)(inhalation (vapour); 6 hours/day)(OECD Test Guideline 414)

Reproductive toxicity

NOAEL Parent : 720 mg/kg bw/day
NOAEL F1 : 720 mg/kg bw/day
(Two-generation reproductive toxicity; Mouse, male and female)(Oral)No adverse effects

Specific Target Organ Toxicity

Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Other toxic properties

Repeated dose toxicity

	NOAEL	:	< 69 mg/kg bw/day
			(Rat, male)(Oral; 90-day) (OECD Test Guideline 408), Target Organs: Liver
	NOAEL	:	< 82 mg/kg bw/day
			(Rat, female)(Oral; 90-day) (OECD Test Guideline 408), Target Organs: Liver
	NOAEL	:	>150 mg/kg bw/day
			(Rabbit, male and female)(Dermal; 90-day) (OECD Test Guideline 411)
	NOAEC	:	< 31 ppm
			(Rat, female)(Inhalation; vapour; 14 Weeks; 5 days/week) (OECD Test Guideline 413)
	NOAEC	:	62.5 ppm
			(Rat, male)(Inhalation; vapour; 14 Weeks; 5 days/week) (OECD Test Guideline 413)

Aspiration hazard

|| No aspiration toxicity classification,

	Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Acute toxicity

Oral

|| LD50 : 1740 mg/kg (Rat, male and female) (OECD Test Guideline 401)

Inhalation

|| LC50 : > 5 mg/l (Rat; 4 h; dust/mist) No mortality observed at this dose.

Dermal

|| LD50 : > 10000 mg/kg (Rabbit)

Irritation

Skin

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|| Result : No skin irritation (Rabbit)

Eyes

|| Result : Irritating to eyes. (Rabbit)

Sensitisation

|| Result : not sensitizing (Buehler Test; Guinea pig) (OECD Test Guideline 406)

CMR effects

CMR Properties

|| Carcinogenicity : Animal testing showed carcinogenic effects.
Suspected of causing cancer.

|| Mutagenicity : No evidence of mutagenic effects.

|| Teratogenicity : Did not show teratogenic effects in animal experiments.

|| Reproductive toxicity : Animal testing did not show any effects on fertility.
Not expected to impair fertility.

Specific Target Organ Toxicity

Single exposure

|| Remarks : No data available

Repeated exposure

|| Ingestion : In animals tests effects have been reported on the following organs:
Kidney

Other toxic properties

Aspiration hazard

|| Not applicable,

Further information

|| Other relevant toxicity information : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

11.2. Information on other hazards

Data for the product

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Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: Tetrapotassium pyrophosphate CAS-No. 7320-34-5

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: Alcohols, C6-12, ethoxylated CAS-No. 68439-45-2

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: 2-butoxyethanol CAS-No. 111-76-2

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: trisodium nitrilotriacetate CAS-No. 5064-31-3

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

SECTION 12: Ecological information

12.1. Toxicity

Component: Tetrapotassium pyrophosphate CAS-No. 7320-34-5

Acute toxicity

Fish

LC50 : > 100 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (Toxicity to fish; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

EC50 : > 100 mg/l (Daphnia magna (Water flea); 48 h) (Toxicity to daphnia; OECD Test Guideline 202)

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algae

|| EC50 : > 100 mg/l (Desmodesmus subspicatus; 72 h) (Toxicity to algae; EU Method C.3)
 || NOEC : > 100 mg/l (Desmodesmus subspicatus; 72 h) (Toxicity to algae; OECD Test Guideline 201)

Bacteria

|| EC50 : > 1000 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Acute toxicity

Fish

|| LC50 : > 10 - 100 mg/l (Fish; 96 h)

Toxicity to daphnia and other aquatic invertebrates

|| : No data available

algae

|| EC50 : > 10 - 100 mg/l (Aquatic plants; 72 h)

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Acute toxicity

Fish

|| LC50 : 1,474 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (static test; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

|| EC50 : 1,550 mg/l (Daphnia (water flea), Immobilization; 48 h) (static test; OECD Test Guideline 202)

algae

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EC50	:	1840 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)
NOEC	:	286 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)

Bacteria

EC0	:	700 mg/l (Pseudomonas putida; 16 h) (static test; DIN 38412)
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Chronic toxicity

Fish

NOEL	:	> 100 mg/l (Danio rerio (zebra fish); 21 d) (semi-static test; OECD Test Guideline 204)
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Aquatic invertebrates

NOEC	:	100 mg/l (Daphnia magna (Water flea); 21 d) (semi-static test; End point: Reproduction; OECD Test Guideline 211)
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Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Acute toxicity

Fish

LC50	:	> 100 mg/l (Pimephales promelas; 96 h) (flow-through test; APHA 1971)
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Toxicity to daphnia and other aquatic invertebrates

EC50	:	> 98 mg/l (Gammarus salinus (seawater shrimp); 96 h)
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algae

EC50	:	> 91.5 mg/l (Scenedesmus subspicatus; 72 h) (static test; End point: Growth rate; Directive 67/548/EEC, Annex V, C.3.)
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Bacteria

EC50	:	3200 - 5600 mg/l (Pseudomonas fluorescens; 8 h) (static test) The details of the toxic effect relate to the nominal concentration
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12.2. Persistence and degradability

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Persistence and degradability

Persistence

Result : No data available

Biodegradability

Result : The methods for determining the biological degradability are not applicable to inorganic substances.

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Persistence and degradability

Persistence

Result : No data available

Biodegradability

Result : 74 % (Exposure Time: 28 d)(OECD Test Guideline 301D)

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Persistence and degradability

Persistence

Result : No data available

Biodegradability

Result : 90.4 % (aerobic; activated sludge; Related to: CO₂ formation (% of the theoretical value).; Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.The 10 day time window criterion is fulfilled.

Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Persistence and degradability

Persistence

Result : No data available

Biodegradability

Result : 90 - 100 % (Related to: Biochemical oxygen demand; Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.

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12.3. Bioaccumulative potential

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Bioaccumulation

|| Result : Bioaccumulation is unlikely.

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Bioaccumulation

|| Result : log Kow 3.77 - 5.36
 : BCF: 4; (Fish) (estimated)The product has low potential bioaccumulation.

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Bioaccumulation

|| Result : log Kow 0.81 (25 °C; pH 7)
 : BCF: 3.16; (QSAR)Bioaccumulation is not expected.

Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Bioaccumulation

|| Result : log Kow -13.2 (20 °C) ((calculated))
 : BCF: < 6; (Brachydanio rerio; 96 d) Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Mobility

|| : Not applicable

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Mobility

|| Soil : Highly mobile in soils

Distribution among environmental compartments

|| Adsorption/Soil, : Koc: 13, (estimated)

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Mobility

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- || Water : The substance will not evaporate into the atmosphere from the water surface., The product is water soluble.
- || Soil : Not expected to adsorb on soil.

Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Mobility

- || Water : The product is water soluble.
- || Air : Substance does not evaporate from water surface into the atmosphere.
- || Soil : Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

- Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Results of PBT and vPvB assessment

- || Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Results of PBT and vPvB assessment

- || Result : No data available

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Results of PBT and vPvB assessment

- || Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Results of PBT and vPvB assessment

- || Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

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Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

12.7. Other adverse effects

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component:	2-butoxyethanol	CAS-No. 111-76-2
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Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

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Component: trisodium nitrilotriacetate CAS-No. 5064-31-3

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product** : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.
- Contaminated packaging** : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
- European Waste Catalogue Number** : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Component:	Tetrapotassium pyrophosphate	CAS-No. 7320-34-5
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended : WGK 1: slightly hazardous to water: 9,524

Component:	Alcohols, C6-12, ethoxylated	CAS-No. 68439-45-2
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

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amended

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed.
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

EU. Directive : ; The substance/mixture does not fall under this legislation.
2012/18/EU (SEVESO
III) on major accident
hazards involving
dangerous substances,
Annex I

Germany. Ordinance on : WGK 2: obviously hazardous to water: 8,708
Facilities Handling
Substances that are
Hazardous to Water,
(AwSV of 21 April 2017),
UBA, BAnz AT), as
amended

Component:	2-butoxyethanol	CAS-No. 111-76-2
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EU. Chemicals Subject : ; The substance/mixture does not fall under this legislation.
to PIC Procedure:
Regulation 649/2012/EU
on export and import of
dangerous chemicals, as
amended

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

EU. Regulation No. : Reference number: 188; Listed
1223/2009 on cosmetic
products, Annex III: List
of Restricted Substances
in Cosmetic Products

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EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended : WGK 1: slightly hazardous to water: 47

Component:	trisodium nitrilotriacetate	CAS-No. 5064-31-3
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended : WGK 2: obviously hazardous to water: 160

15.2. Chemical safety assessment

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No data available

SECTION 16: Other information

II

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.

Full text of the Notes referred to under section 3.

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration

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NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and

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does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.