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

SYSTEM 2 UNIVERSAL

Version 8.0 Print Date 19.08.2015

Revision date / valid from 01.06.2015

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

1.1. Product identifier

Trade name : SYSTEM 2 UNIVERSAL

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

Use of the Substance/Mixture : industrial use, industrial 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 : BCD Chemie GmbH
Schellerdamm 16
DE 21079 Hamburg

Telephone : +49 (0)69-40101-71

Telefax : +49 (0)69-40101-34

E-mail address : InfoSDB@bcd-chemie.de

Responsible/issuing person : Umwelt / Sicherheit

1.4. Emergency telephone number

Emergency telephone number : +49 (0)208-7828-0 Available 24h/7d

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	**Hazard category**	**Target Organs**	**Hazard statements**
Corrosive to metals	Category 1	---	H290
Skin corrosion	Category 1A	---	H314
Skin sensitisation	Category 1	---	H317

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	**Risk phrases**
Corrosive (C)	R35
Sensitising	R43

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :

Signal word : Danger

Hazard statements :

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Precautionary statements

Prevention :

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ eye protection/ face protection.
P234	Keep only in original container.

Response :

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 or doctor/ physician.
		P310	Immediately call a POISON CENTER/doctor.
Disposal	:	P501	Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

The classification as corrosive is because pH >= 11,5.

Hazardous components which must be listed on the label:

• N-(2-Hydroxyethyl)-N-[2-[(1-oxooctyl)amino]ethyl]-.beta.-alanine

Regulation (EC) No 648/2004 on detergents

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

non-ionic surfactants	Concentration : >= 5,00 % - < 15,00 %
phosphonates	Concentration : < 5,00 %

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical nature : Mixture of substances listed below with additions in nonhazardous concentrations.

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
2-butoxyethanol Index-No. : 603-014-00-0 CAS-No. : 111-76-2 EC-No. : 203-905-0 Registration : 01-2119475108-36-xxxx	>= 5 - < 10	Acute Tox.4 Acute Tox.4 Acute Tox.4 Eye Irrit.2 Skin Irrit.2	H332 H312 H302 H319 H315	Harmful; Xn; R20/21/22 Irritant; Xi; R36/38
Alkohols, C9-11-iso-, C10-rich, ethoxylated				

>= 5 - < 10	Acute Tox.4 Eye Dam.1	H302 H318	Harmful; Xn; R22 Irritant; Xi; R41

N-(2-Hydroxyethyl)-N-[2-[(1-oxooctyl)amino]ethyl]-.beta.-alanine

CAS-No. : 64265-45-8 EC-No. : 264-761-2	>= 1 - < 5	Eye Irrit.2 Skin Sens.1	H319 H317	Irritant; Xi; R36 R43

potassium hydroxide

Index-No. : 019-002-00-8 CAS-No. : 1310-58-3 EC-No. : 215-181-3	>= 1 - < 3	Met. Corr.1 Acute Tox.4 Skin Corr.1A	H290 H302 H314	Harmful; Xn; R22 Corrosive; C; R35

Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

CAS-No. : 51981-21-6 EC-No. : 257-573-7	>= 1 - < 5	---	---	---

2-Phosphonobutane-1,2,4-tricarboxylic acid

CAS-No. : 37971-36-1 EC-No. : 253-733-5 Registration : 01-2119436643-39-xxxx	>= 1 - < 3	Met. Corr.1 Eye Irrit.2	H290 H319	Irritant; Xi; R36

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Remove from exposure, lie down. Take off all contaminated clothing immediately. First aider needs to protect himself.

If inhaled : Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician. If unconscious place in recovery position and seek medical advice.

In case of skin contact : Wash off immediately with soap and plenty of water. Call a physician immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Protect unharmed eye. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed : Rinse the mouth and spit the fluids out. Drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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 : If ingested, severe burns of the mouth and throat, as well as a

danger of perforation of the oesophagus and the stomach.

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

Treatment : Treat symptomatically.

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	:	Water with a full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	The product itself does not burn. Fire may cause evolution of: Carbon monoxide, Carbon dioxide (CO2), oxides of phosphorus, Nitrogen oxides (NOx)

5.3. Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.Wear appropriate body protection (full protective suit)
Special protective equipment for firefighters	:	
Further advice	:	Cool closed containers exposed to fire with water spray.Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Remarks	:	

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Avoid contact with eyes. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.

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). Ventilate the area. Treat recovered material as described in the section "Disposal

considerations". Clean contaminated surface thoroughly.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	:	Ensure adequate ventilation. Avoid contact with the skin and the eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Avoid formation of aerosol. Keep container tightly closed in a dry and well-ventilated place.
Hygiene measures	:	Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapour/spray. 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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Keep only in the original container.
Advice on protection against fire and explosion	:	The product is not flammable. Normal measures for preventive fire protection.
Further information on storage conditions	:	Keep away from heat. Keep away from direct sunlight. Protect from frost.
Advice on common storage	:	Keep away from oxidizing agents. Do not store near acids. Keep away from food, drink and animal feedingstuffs. Corrosive in contact with metals
German storage class	:	8BL Non combustible liquids, corrosive

7.3. Specific end use(s)

Specific use(s)	:	No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	2-butoxyethanol	CAS-No. 111-76-2
Other Occupational Exposure Limit Values		

TRGS 900, Skin designation:
Can be absorbed through the skin.

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

EU ELV, Short Term Exposure Limit (STEL):
50 ppm, 246 mg/m3
Indicative

TRGS 900, Exposure limit(s):
10 ppm, 49 mg/m3, (4)
If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).

Biological Exposure Indices

DE BAT, Butoxyacetic acid, Urine
100 mg/l, Sampling time: End of work week.

DE BAT, Butoxyacetic acid (BAA), with hydrolysis, Urine
200 mg/l, Sampling time: End of work week.

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). Required if vapours or aerosol are released. In case of insufficient ventilation, wear suitable respiratory equipment. Filter: ABEK-P2

Hand protection

Advice	:	Wear suitable gloves. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear.

Eye protection

Advice	:	Tightly fitting safety goggles

Skin and body protection

Advice	:	impervious clothing alkali resistant protective clothing

Environmental exposure controls

General advice	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	liquid
Colour	:	blue
Odour	:	mild
Odour Threshold	:	no data available
pH	:	13 (; 20 °C)
Melting point/range	:	not determined
Boiling point/boiling range	:	> 100 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	not determined
Relative vapour density	:	no data available
Density	:	1,16 g/cm3 (20 °C)
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	200 °C

Thermal decomposition	:	no data available
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	EU legislation: Not explosive
Explosivity	:	Product is not explosive.
Oxidizing properties	:	Not applicable

9.2. Other information

Corrosion to metals	:	Corrosive to metals

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 : May be corrosive to metals.

10.4. Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.Protect from frost.

10.5. Incompatible materials

Materials to avoid : Oxidizing agents, Strong acids, Metals

10.6. Hazardous decomposition products

Hazardous decomposition products : Under fire conditions: Carbon oxides, oxides of phosphorus, Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Oral

For this mixture is no data available., Please find this information in the listing of the component/components below in the MSDS.

Inhalation

For this mixture is no data available.
Please find this information in the listing of the component/components below in the MSDS.

Dermal

For this mixture is no data available.
Please find this information in the listing of the component/components below in the MSDS.

Irritation

Skin

Result	:	Irritating to skin.

Eyes

Result	:	Risk of serious damage to eyes.

Sensitisation

Result	:	May cause an allergic skin reaction.

CMR effects

CMR Properties

Carcinogenicity	:	For this product currently is no data available. Based on available data, the classification criteria are not met.
Mutagenicity	:	For this product currently is no data available. Based on available data, the classification criteria are not met.
Reproductive toxicity	:	For this product currently is no data available. Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity

Single exposure

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

Repeated exposure

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

Other toxic properties

Repeated dose toxicity

no data available

Aspiration hazard

No aspiration toxicity classification

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. Inhalation of aerosols may cause irritation to mucous membranes.

Component: Alkohols, C9-11-iso-, C10-rich, ethoxylated

Acute toxicity

Oral

LD50 Oral	:	1360 mg/kg (Rat)

Inhalation

no data available

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

Acute toxicity

Oral

LD50 Oral	:	1746 mg/kg (Rat, male)
LD50 Oral	:	1300 mg/kg (Rat, male and female) (OECD Test Guideline 401)
LD50 Oral	:	1414 mg/kg (Guinea pig, male and female)

Inhalation

LC0	:	> 3,1 mg/l (Guinea pig; 1 h; vapour)
LC50	:	> 10,0 - 20,0 mg/l

Dermal		
LD50 Dermal	:	> 1000 - 2000 mg/kg (Rat)

Component:	potassium hydroxide	CAS-No. 1310-58-3
Acute toxicity		
Oral		
LD50	:	333 mg/kg (Rat)
Inhalation		
no data available		
Dermal		
no data available		

Component:	Ethoxylated fatty alcohol	
Acute toxicity		
Dermal		
LD50	:	> 4000 mg/kg (Rat)

SECTION 12: Ecological information

12.1. Toxicity

Component:	2-butoxyethanol	CAS-No. 111-76-2
Acute toxicity		
Fish		
LC50	:	1474 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	1550 mg/l (Daphnia (water flea); 48 h) (OECD Test Guideline 202)
algae		
EC50	:	1840 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (OECD Test Guideline 201)

Bacteria		
EC0	:	700 mg/l (Pseudomonas putida; 16 h) (DIN 38412)

Component:	**Alkohols, C9-11-iso-, C10-rich, ethoxylated**	
Acute toxicity		
Fish		
LC50	:	10 - 100 mg/l (Leuciscus idus (Golden orfe); 48 h)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	10 - 100 mg/l (48 h) Information given is based on data obtained from similar substances.
algae		
EC50	:	10 - 100 mg/l (72 h) Information given is based on data obtained from similar substances.
Bacteria		
EC10	:	48 mg/l (17 h) (DIN 38412) Information given is based on data obtained from similar substances.

Component:	**potassium hydroxide**	**CAS-No. 1310-58-3**
Acute toxicity		
Fish		
LC50	:	80 mg/l (Gambusia affinis; 96 h)
Toxicity to daphnia and other aquatic invertebrates		
no data available		
algae		
no data available		
Bacteria		
EC50	:	22 mg/l (Photobacterium phosphoreum; 15 min)

Component:	2-Phosphonobutane-1,2,4-tricarboxylic acid	CAS-No. 37971-36-1
Acute toxicity		
Fish		
LC50	:	> 1042 mg/l (Danio rerio (zebra fish); 96 h; Test substance: 39,66 % solution) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	> 1071 mg/l (Daphnia magna (Water flea); 48 h; Test substance: 39,66 % solution) (Immobilization; OECD Test Guideline 202)
algae		
IC50	:	> 140 mg/l (Scenedesmus subspicatus; 72 h; Test substance: 39,66 % solution) (End point: Biomass)
IC50	:	> 1081 mg/l (Scenedesmus subspicatus; 72 h; Test substance: 39,66 % solution) (End point: Growth rate; OECD Test Guideline 201)

12.2. Persistence and degradability

Component:	2-butoxyethanol	CAS-No. 111-76-2
Persistence and degradability		
Persistence		
Result	:	no data available
Biodegradability		
Result	:	90 % (aerobic; activated sludge; Exposure Time: 28 d)(OECD Test Guideline 301B) Readily biodegradable.

Component:	Alkohols, C9-11-iso-, C10-rich, ethoxylated
Persistence and degradability	
Persistence	
Result	: no data available
Biodegradability	

Result	:	> 90 % (OECD Test Guideline 301E) Information given is based on data obtained from similar substances.
Result	:	> 60 % (Related to: CO2 formation (% of the theoretical value).; Exposure Time: 28 d)(OECD Test Guideline 301B) Information given is based on data obtained from similar substances.

Component:	potassium hydroxide	CAS-No. 1310-58-3
Persistence and degradability		
Persistence		
Result	:	no data available
Biodegradability		
Result	:	The methods for determining biodegradability are not applicable to inorganic substances.

Component:	2-Phosphonobutane-1,2,4-tricarboxylic acid	CAS-No. 37971-36-1
Persistence and degradability		
Persistence		
Result	:	no data available
Biodegradability		
Result	:	30 - 40 % (Exposure Time: 28 d)(OECD 302A/ ISO 9887/ EEC 92/69/V, C.12) Not readily biodegradable.
Result	:	0 % (Exposure Time: 28 d)(OECD Test Guideline 301E) Not readily biodegradable.

12.3. Bioaccumulative potential

Component:	2-butoxyethanol	CAS-No. 111-76-2
Bioaccumulation		
Result	:	log Kow 0,81 (25 °C) Bioaccumulation is not expected.

Component:	Alkohols, C9-11-iso-, C10-rich, ethoxylated
	Bioaccumulation

Result : Bioaccumulation is not expected.

Component:	potassium hydroxide	CAS-No. 1310-58-3
	Bioaccumulation	

Result : Bioaccumulation is not expected.

Component:	2-Phosphonobutane-1,2,4-tricarboxylic acid	CAS-No. 37971-36-1
	Bioaccumulation	

Result : log Kow -1,36

The product has low potentiel bioaccumulation.

12.4. Mobility in soil

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

: The substance will not evaporate into the atmosphere from the water surface., Not expected to adsorb on soil.

Component:	Alkohols, C9-11-iso-, C10-rich, ethoxylated
	Mobility

Soil : The substance will not evaporate into the atmosphere from the water surface., Adsorption to solid soil phase can be expected.

Component:	potassium hydroxide	CAS-No. 1310-58-3
	Mobility	

: Adsorption to solid soil phase is not expected., The product is water soluble.

Component:	2-Phosphonobutane-1,2,4-tricarboxylic acid	CAS-No. 37971-36-1
	Mobility	

: no data available

12.5. Results of PBT and vPvB assessment

Component:	2-butoxyethanol	CAS-No. 111-76-2
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:	Alkohols, C9-11-iso-, C10-rich, ethoxylated
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:	potassium hydroxide	CAS-No. 1310-58-3
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). no data available

Component:	2-Phosphonobutane-1,2,4-tricarboxylic acid	CAS-No. 37971-36-1
Results of PBT and vPvB assessment		
Result	:	Not applicable

12.6. Other adverse effects

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

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.

Contaminated packaging	:	Empty remaining contents. Offer rinsed packaging material to local recycling facilities. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
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

14.1. UN number

1760

14.2. UN proper shipping name

ADR : CORROSIVE LIQUID, N.O.S.
(Potassium hydroxide, Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate)

RID : CORROSIVE LIQUID, N.O.S.
(Potassium hydroxide, Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate)

IMDG : CORROSIVE LIQUID, N.O.S.
(Potassium hydroxide, Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate)

14.3. Transport hazard class(es)

ADR-Class	: 8
(Labels; Classification Code; Hazard identification No; Tunnel restriction code)	8; C9; 80; (E)
RID-Class	: 8
(Labels; Classification Code; Hazard identification No)	8; C9; 80
IMDG-Class	: 8
(Labels; EmS)	8; F-A, S-B

14.4. Packaging group

ADR : III
RID : III
IMDG : III

14.5. Environmental hazards

Environmentally hazardous according to ADR	: no
Environmentally hazardous according to RID	: no
Marine Pollutant according to IMDG-Code	: no

14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

SECTION 15: Regulatory information

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

Other regulations	:	Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.
WGK (DE)	:	water endangering; Self-classification according VwVwS of 17 May 1999, Annex 4
German Störfallverordnung	:	Does not fall under the German StörfallV. -

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

EU. Regulation No 1451/2007 [Biocides], Annex I, Active substances identified as existing (OJ (L 325) : EC Number: , 203-905-0; Listed

Component:	potassium hydroxide	CAS-No. 1310-58-3

EU. Regulation No 1451/2007 [Biocides], Annex I, Active substances identified as existing (OJ (L 325) : EC Number: , 215-181-3; Listed

Component:	2-Phosphonobutane-1,2,4-tricarboxylic acid	CAS-No. 37971-36-1

EU. Regulation No 1451/2007 [Biocides], Annex I, Active substances identified as existing (OJ (L 325) : EC Number: , 253-733-5; Listed

15.2. Chemical Safety Assessment

no data available

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3.

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

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.
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 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.