



Safety Data Sheet

Regulation (EC) No. 1907/2006, 1272/2008

Version No.: 1.0

Printing Date: December 27, 2024

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SDS REPORT

Kelilong Electron Co. Ltd
NO.60 Xing Ye Middle Road, Fuan 355019, Fujian, China

SDS Report No. : CTL2412255011-Q
Compilation Date : December 27, 2024
Trade Name : pH Buffer Powder (PH4.01)
Composition/Ingredient of The Sample : See Section 3 on the SDS
Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.
Summary : As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878, (EC) No 1272/2008 and are provided per attached.

As of the issuance date of this report, the original report CTL2401125025-Q will be invalid.

Signed for and on behalf of

Technical Center:



Safety Data Sheet

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Trade Name: pH Buffer Powder (PH4.01)

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

1.1 Product identifier

- Trade name: pH Buffer Powder (PH4.01)
- EC No: 212-889-4
- CAS No: 877-24-7
- Index No.: No data available
- REACH Registration No.: No data available

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

- Application of the substance/ mixture: Calibrate pH meter.
- Uses advised against: No data available
- Reason why uses advised against: No data available

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier:

Kelilong Electron Co. Ltd

NO.60 Xing Ye Middle Road, Fuan 355019, Fujian, China

Tel: 0593-6550588

Fax: 0593-6551718

Email: kelilong@1718cn.com

- Only Representative/other EU contact point: Information not available

- Further information obtainable from: Kelilong Electron Co. Ltd

1.4 Emergency telephone number

Country	Official advisory body	Address	Emergency number	Remark
Austria	Vergiftungsinformationszentrale (Poisons Information Centre)	Stubenring 6 1010 Wien	+43 1 406 43 43	
Belgium	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Bulgaria	Национален токсикологичен информационен център (National Toxicological Information Centre) Многопрофилна болница за активно лечение и спешна	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409	

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	медицина "Н.И.Пирогов" (National Clinical Toxicology Centre), Emergency Medical Institute "Pirogov"			
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	
Cyprus	Κέντρον Δηλητηριάσεων		1401	Operating hours 24 hours / 24 hours, 7 days a week
Czech Republic	Toxikologickéinformačnístředisko KlinikapracovníholékařstvíVFN a I. LF UK	Na Bojišti I 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Denmark	Giftilinjen Bispebjerg Hospital	Bispebjerg Bakke 23 2400 København NV	+45 82 12 12 12	
Estonia	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	16662 +372 626 93 90	
Finland	Myrkytystietokeskus	Stenbäckinkatu 9 PO BOX 100 29 Helsinki	+358 9 471 977 +358 9 4711	
France	Centre Antipoison et de Toxicovigilance de Paris Hôpital Fernand Widal	200 rue du Faubourg Saint-Denis 75475 Paris Cedex 10	+33 1 40 05 48 48	
France	Centre Antipoison et de Toxicovigilance de Marseille Hôpital Sainte Marguerite	270 boulevard de Sainte Marguerite 13274 Marseille Cedex 09	+33 4 91 75 25 25	
Germany	Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik rechts der Isar der Technischen Universität München	Ismaninger Straße 22 81675 München	+49 (0) 89 19240	
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	
Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	
Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Iceland	Eitrunarmiðstöð Landspítali	Fossvogi 108 Reykjavík	+354 543 22 22	
Ireland	National Poisons Information	PO Box 1297	+353 1 809 2566	

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	Centre Beaumont Hospital	Beaumont Road 9 Dublin	(Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Italy	Centro Antiveleni Dipartimento di Tossicologia Clinica, Universita Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 168 Roma	+39 06 305 4343	
Latvia	Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs	Hipokrāta 2 1038 Rīga	+371 67 04 24 73	
Lithuania	Apsinuodijimų informacijos biuras	Birutės g. 56 8110 Vilnius	+370 5 236 20 52 +370 687 53378	
Luxembourg	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+352 8002 5500	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
Netherlands	Nationaal Vergiftigingen Informatie Centrum Universitair Medisch Centrum Utrecht, Het Nationaal Vergiftigingen Informatie Centrum (NVIC) informeert (dieren-) artsen, apothekers en andere professionele hulpverleners over de mogelijke gezondheidseffecten en behandelingsmogelijkheden bij vergiftigingen. Het NVIC is hiervoor dag en nacht bereikbaar, zowel telefonisch als via internet	Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht	+31 30 274 88 88	Only for thepurpose of informing medical personnel in cases of acute intoxications
Norway	Giftinformasjonen Helsedirektoratet	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	
Portugal	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica	Rua Almirante Barroso, 36 1000-013 Lisboa	+351 808 250 143	
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+40 21 230 8000	

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Serbia	Nacionalni centar za kontrolu trovanja - VMA	Crnotravska 17 11000 Beograd	+381 11 360 84 40 (24h) +381 11 3672 187	
Slovakia	Národné toxikologické informačné centrum Univerzitná nemocnica Bratislava, pracovisko Kramáre, Klinika pracovného lekárstva a toxikológie	Limbová 5 833 05 Bratislava	+421 2 54 77 41 66	
Slovenia	Center za kliničnotoksikologijo in farmakologijo Internaklinika, UKCL	Zaloška cesta 7 1525 Ljubljana	+386 41 650 500	
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Sevilla	Carretera de San Jerónimo Km 0,4 41080 Sevilla	+34 91 562 04 20	(Toxicological emergencies only). Information in Spanish (24/7)
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid	C/José Echegaray nº4 28232 Las Rozas de Madrid	+34 91 562 04 20	(Toxicological emergencies only). Information in Spanish (24/7)
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	
Switzerland	Tox Info Suisse	Freiestrasse 16 8032 Zürich	145	(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for the purpose of informing medical personnel in cases of acute intoxications

In China

Chen Li

Tel: +086 18060361699 (24 hours available)

SECTION 2: Hazards identification

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2.1 Classification of the substance or mixture

2.1.1 Classification according to regulation (EC) 1272/2008: The product is not classified according to CLP Regulation.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008: The product is not labelled according to CLP Regulation.

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

Precautionary statement: Not applicable

Supplemental label elements: Not applicable

2.3 Other hazards

Substance does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

Substance was not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

3.1 Substance

Substance name	CAS No.	Index No	EC No.	Weight %	SCL/ M-factor/ATE
Potassium hydrogen phthalate	877-24-7	-	212-889-4	100	-

3.2 Mixture

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Get medical advice/attention if feel unwell.

After inhalation: Supply with fresh air. Get medical advice/attention if feel unwell.

After skin contact: Wash skin with water. If skin irritation occurs: Get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

After swallowing: Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed: No known symptoms or effects.

4.3 Indication of any immediate medical attention and special treatment needed: No special immediate medical attention or special treatment needed.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Not flammable powder, use the suitable extinguishing agents surrounding condition.

Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture: No special hazards arising from the substance.

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

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SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

• 6.1.1 For non-emergency personnel

Protective equipment: Protective gloves/ eye protection/ face protection/ dust mask.

Emergency procedures: Evacuate immediately; Avoid breathing dust; Avoid contact with eyes and skin.

• 6.1.2 For emergency responders

Personal protective equipment: Wear protective gloves/ eye protection/face protection/ dust mask.

• 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

• 6.3 Methods and material for containment and cleaning up:

Ensure good ventilation; Dispose contaminated material as waste according to section 13.

• 6.4 Reference to other sections:

See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling: Ensure good ventilation at workplace; Avoid breathing dust; Prevent contact with eyes.

• **Information about fire and explosion protection:** Normal measures for preventive fire protection.

• 7.2 Conditions for safe storage, including any non-compatibility

• **Requirements to be met by storerooms and receptacles:** Store in a dry and well-ventilated place.

• **Information about storage in one common storage facility:** Keep away from acid and alkali.

• **Further information about storage conditions:** Keep the condition dry.

• **Storage class:** 13

• **7.3 Specific end use(s):** See section 1.2.

SECTION 8: Exposure controls/personal protection

• 8.1 Control parameters

• **Ingredients with limit values that require monitoring at the workplace:** No available data.

• **DNELs:** No available data.

• **PNECs:** No available data.

• **Additional information:** The lists valid during the marking were used as basis.

• 8.2 Exposure controls

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work;

See section 7 for information about design of technical facilities.

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- **Personal protective equipment**

- **Eye/Face protection:**



Safety glasses

Protective goggles with side-shields.

- **Skin protection**

- **Hand protection:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; breakthrough times up to 480 minutes)

- **Respiration protection:** Dust mask is recommended.

- **Thermal hazards:** Not special requirements.

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

• Physical state	Powder
• Color	Colorless
• Odor & Odor threshold	Odorless
• Melting point/freezing point	295°C
• Boiling point or initial boiling point and boiling range	300°C
• Flammability	Not flammable solid
• Lower and upper explosion limit	Not applicable
• Flash point	197°C (closed cup)
• Auto-ignition temperature	Not applicable
• Decomposition temperature	Not determined
• pH	4.01 (10g/L, at 20°C)
• Kinematic viscosity (mm²/s)	Not applicable
• Solubility	82.659 g/L at 30°C
• Partition coefficient n-octanol/water (log value)	-2.73
• Vapor pressure	Not applicable
• Density and/or relative density	1.571
• Relative vapor density	Not applicable
• Particle characteristics	Not determined
• 9.2 Other information	
• 9.2.1 Information with regard to physical hazard classes:	
• Explosives	Not applicable

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· <i>Flammable gases</i>	<i>Not applicable</i>
· <i>Aerosols</i>	<i>Not applicable</i>
· <i>Oxidising gases</i>	<i>Not applicable</i>
· <i>Gases under pressure</i>	<i>Not applicable</i>
· <i>Flammable liquids</i>	<i>Not applicable</i>
· <i>Flammable solids</i>	<i>Not applicable</i>
· <i>Self-reactive substances and mixtures</i>	<i>Not applicable</i>
· <i>Pyrophoric liquids</i>	<i>Not applicable</i>
· <i>Pyrophoric solids</i>	<i>Not applicable</i>
· <i>Self-heating substances and mixtures</i>	<i>Not applicable</i>
· <i>Substances and mixtures, which emit flammable gases in contact with water</i>	<i>Not applicable</i>
· <i>Oxidizing liquids</i>	<i>Not applicable</i>
· <i>Oxidizing solids</i>	<i>Not applicable</i>
· <i>Organic peroxides</i>	<i>Not applicable</i>
· <i>Corrosive to metals</i>	<i>Not applicable</i>
· <i>Desensitised explosives</i>	<i>Not applicable</i>
· 9.2.2 Other safety characteristics	
· <i>Mechanical sensitivity</i>	<i>Not applicable</i>
· <i>Self-accelerating polymerisation temperature</i>	<i>Not applicable</i>
· <i>Formation of explosible dust/air mixtures</i>	<i>Not applicable</i>
· <i>Acid/alkaline reserve</i>	<i>Not determined</i>
· <i>Evaporation rate</i>	<i>Not applicable</i>
· <i>Miscibility</i>	<i>Not determined</i>
· <i>Conductivity</i>	<i>Not determined</i>
· <i>Corrosiveness</i>	<i>Not applicable</i>
· <i>Gas group</i>	<i>Not applicable</i>
· <i>Redox potential</i>	<i>Not applicable</i>
· <i>Radical formation potential</i>	<i>Not applicable</i>
· <i>Photocatalytic properties</i>	<i>Not applicable</i>
· <i>Other physical and chemical parameters</i>	<i>Not determined</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No decomposition if used according to specification.
- **10.2 Chemical stability:** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions:** No known hazardous reaction.
- **10.4 Conditions to avoid:** High humidity.
- **10.5 Incompatible materials:** Strong acid.
- **10.6 Hazardous decomposition products:** No known hazardous decomposition products.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

• **Acute toxicity:** Based on available data, the classification criteria are not met.

LD50/LC50 values relevant for classification:

Guinea pig	LD50-skin	> 1000 mg/kg
Rat	LD50-oral	>3200mg/kg

• **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

• **Serious eyes damage/ irritation:** Based on available data, the classification criteria are not met.

• **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

• **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

• **Carcinogenicity:** Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

• **Summary of evaluation of the CMR properties:** Not classified as CMR product.

• **STOT-single exposure:** Based on available data, the classification criteria are not met.

• **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

• **Aspiration hazard:** Based on available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties:

Substance was not considered to have endocrine-disrupting properties with respect to humans as it meets the criteria set out in section A of Regulation (EU) No 2017/2100.

• **11.2.2 Other information:** No known other relevant information on adverse health effects.

SECTION 12: Ecological information

12.1 Toxicity

Short-term toxicity to fish	LC50 (4 days) 100 mg/L
Short-term toxicity to aquatic invertebrates	NOEC (72 h) 100 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 19.885 mg/L

• **12.2 Persistence and degradability:** No available data.

12.3 Bio-accumulative potential:

877-24-7	Potassium hydrogen phthalate	Log Pow =-2.73
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12.4 Mobility in soil:

877-24-7	Potassium hydrogen phthalate	Log Koc=0.841 at 25 °C
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12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

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12.6 Endocrine disrupting properties:

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effects: No known other adverse effects.

12.8 Additional ecological information

General notes: WGK 1 (German Regulation) (self-assessment): Low hazardous for water.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

13.1 Waste treatment methods

Recommendation: Small quantities can be disposed together with household garbage; Large quantities disposed must be in according to the local regulation.

13.2 Un-cleaned packaging

Recommendation: Dispose of contents/container in according to the local regulation.

SECTION 14: Transport information

14.1 UN-Number

ADR, RID, ADN, IMDG, IATA

Not regulated as dangerous transport goods, not applicable

14.2 UN proper shipping name

ADR, RID, ADN, IATA, IMDG

Void

14.3 Transport hazard class (es)

ADR, RID, ADN, IATA, IMDG

Class

Void

Label

Void

14.4 Packing group

ADR, RID, ADN, IMDG, IATA

Void

14.5 Marine pollution

No

14.6 Special precautions for user

Void

· Danger code (Kemler)

Void

· EMS number

Void

14.7 Transport in bulk according to Annex

II of MARPOL73/78 and the IBC Code

Void

SECTION 15: Regulatory information

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

MAK (German Maximum Workplace Concentration): Not listed.

Directive 2012/18/EU

Named dangerous substances-ANNEX I: Not listed.

Seveso category: Not applicable

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- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** Not applicable
- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** Not applicable
- **National regulations.**
- **Water hazard class: WGK 1 (German Regulation) (self-assessment):** Low hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** Not listed.
- **REACH Regulation Annex XVII Restriction:** Not listed.
- **REACH Regulation Annex XIV Authorization List:** Not listed.
- **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

- **16.1 Indication of changes:** Not applicable
- **16.2 Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration
- **16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>
- **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:** Not applicable
- **16.5 Relevant H- and EUH-phrases (number and full text):** Not applicable
- **16.6 Training advice:**

Workers must be educated and trained so they can read SDS and understand the hazards, and know how to work safely with hazardous products

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· 16.7 Further information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

End of safety data sheet