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SECTION 10: Stability and reactivity (....)

10.6 Hazardous decomposition products

- Decomposition products may include nitrogen and carbon oxides
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SECTION 11: Toxicological information

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

- Acute Toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	LD ₅₀ (oral, rat)	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)
2-butoxyethanol	1 414 mg/kg (guinea pig)	No data available	435 mg/kg
2,2',2"-nitrilotriethanol	6 400 mg/kg	No data available	2 000 mg/kg
Disodium metasilicate	994.7 - 1 530 mg/kg	(4 h) 2.06 mg/L	5 000 mg/kg (rat)
Tetrasodium ethylene diamine tetraacetate	1 780 - 2 000 mg/kg	No data available	No data available

- Skin corrosion/irritation
Causes severe skin burns
Classification based on extreme pH
- Serious eye damage/irritation
Causes serious eye damage.
Classification based on extreme pH
- Respiratory or skin sensitisation
Based on available data, the classification criteria are not met
- Germ cell mutagenicity
No evidence of mutagenic effects
- Carcinogenicity
No evidence of carcinogenic effects

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
2,2',2"-nitrilotriethanol	1 333 mg/kg bw/day	No data available	250 mg/kg bw/day

- Reproductive toxicity
No evidence of reproductive effects

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
2,2',2"-nitrilotriethanol	1 000 mg/kg bw/day (Effect on fertility) 300 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available

- Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met
- Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met

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SECTION 11: Toxicological information (....)

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
2-butoxyethanol	No data available	31 - 62.5 ppm	150 mg/kg bw/day (rabbit)
2,2',2"-nitrilotriethanol	1 000 mg/kg bw/day	20 - 500 mg/m ³	125 - 500 mg/kg
Disodium metasilicate	227 - 237 mg/kg bw/day	No data available	No data available
Tetrasodium ethylene diamine tetraacetate	500 mg/kg bw/day	3 - 15 mg/m ³	No data available

- Aspiration hazard
Based on available data, the classification criteria are not met
- Contact with eyes
Causes redness and swelling
May cause severe damage with formation of corneal ulcers and permanent impairment of vision.
- Contact with skin
May cause severe burns with permanent skin damage which are slow to heal.
Possible blistering of the skin of affected areas
- Ingestion
May cause burns to mouth and throat
Corrosive burns may appear around the lips
There may be bleeding from the mouth or nose.
Blood may be vomited
- Inhalation
May cause breathing difficulty
May cause coughing and tightness of chest

11.2 Information on other hazards

- Does not contain any substances with endocrine disrupting properties

SECTION 12: Ecological information

12.1 Toxicity

- Based on available data, the classification criteria are not met

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
2-butoxyethanol	(4 days) 1.474 g/L	(48 h) 1.55 - 1.8 g/L	(72 h) 623 - 1 840 mg/L
2,2',2"-nitrilotriethanol	(4 days) 11.8 g/L	(48 h) 609.88 mg/L	(72 h) 216 - 512 mg/L
Disodium metasilicate	(4 days) 210 - 2 320 mg/L	(48 h) 1.7 g/L	(72 h) 207 mg/L
Tetrasodium ethylene diamine tetraacetate	(4 days) 41 - 1 592 mg/L	(48 h) 140 mg/L	(72 h) 2.77 - 1 000 mg/L

12.2 Persistence and degradability

- The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Substances

Chemical Name	Biodegradation
2-butoxyethanol	Readily biodegradable in water (100%)
2,2',2"-nitrilotriethanol	Readily biodegradable in water (100%)
Tetrasodium ethylene diamine tetraacetate	EDTA is not readily biodegradable according to OECD criteria, but is ultimately biodegradable under special environmental conditions e.g. slightly alkaline pH

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SECTION 12: Ecological information (....)

12.3 Bioaccumulative potential

- Low bioaccumulation potential

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
2-butoxyethanol	Low potential for bioaccumulation (Log Kow < 3)	(Log Pow) 0.81
2,2',2''-nitrilotriethanol	3.9 L/kg	-2.3 at pH 7.1
Tetrasodium ethylene diamine tetraacetate	No data available	No data available

12.4 Mobility in soil

- Soluble in water
- May adsorb onto soils and sediments

Substances

Chemical Name	Adsorption/desorption
2-butoxyethanol	Low potential for adsorption (Log Kow < 1)
2,2',2''-nitrilotriethanol	Koc 1 979 - 4 489 dimensionless @ 25 °C Log Koc 3.3 - 3.65 dimensionless @ 25 °C
Tetrasodium ethylene diamine tetraacetate	Due to the ionic structure no adsorption onto the organic fraction of soil or sediments is expected

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

- No information available

12.7 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- This material and its container must be disposed of as hazardous waste
- Do not reuse empty containers without commercial cleaning or reconditioning

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
- Hazardous Property Code(s): HP 8 Corrosive

SECTION 14: Transport information


14.1 UN number or ID number

- UN No.: 1760

SECTION 14: Transport information (....)

14.2 UN proper shipping name

- Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Disodium Trioxosilicate)

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: III
(If the mixture consists only of components assigned to packing group III and other non-corrosive components, packing group III may be assigned).

14.5 Environmental hazards

- Not applicable

14.6 Special precautions for user

- No information available

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable

14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Disodium Trioxosilicate)
- ADR UN No.: 1760
- ADR Hazard Class: 8
- ADR Packing Group: III
- Tunnel Code: (E)

14.9 Sea (IMDG)

- Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Disodium Trioxosilicate)
- IMDG UN No.: 1760
- IMDG Hazard Class: 8
- IMDG Pack Group.: III

14.10 Air (ICAO/IATA)

- Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Disodium Trioxosilicate)
- ICAO UN No.: 1760
- ICAO Hazard Class: 8
- ICAO Packing Group: III

SECTION 15: Regulatory information

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH
- The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- Label requirements for the Detergents Regulation (EC 684/2004, 907/2006): Contains amongst other ingredients, < 5% EDTA and salts, non-ionic surfactants

15.2 Chemical safety assessment

- No information available



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SECTION 16: Other information

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.

Sources of data: Information from published literature and supplier safety data sheets

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Changes made: Updated and revised to conform to latest version of REACH Annex II

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

- Skin Corr. 1, H314: Classification based on extreme pH

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- 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.
- H318: Causes serious eye damage
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H373: May cause damage to organs through prolonged or repeated exposure

Acronyms

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC₅₀: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC₅₀: Lethal Concentration, 50%
- LD₅₀: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- SCL: Specific Concentration Limit
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---
