

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY/UNDERTAKING
Identification of the substance or preparation:
K1521TD: PH10.01 BUFFER CAPSULES
Use of the substance / preparation: For pH calibration

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2. COMPOSITION/INFORMATION ON INGREDIENTS
Danger classification: Eye Irritation (Cat. 2)

H319

: Causes serious eye irritation.

Precautionary statements

P264

: Wash skin thoroughly after handling.

P280

: Wear eye protection/ face protection.

P305 + P351 + P338

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

: If eye irritation persists: Get medical advice/ attention.

Hazards to man and the environment: Discharge into the environment must be avoided.

3. HAZARDS IDENTIFICATION

Components	Content	Formula	GHS symbol(s)	Hazard identification	CAS No.	EC No.
Sodium carbonate	27%	Na ₂ CO ₃	⚠	H319	497-19-8	207-838-8
Sodium hydrogen carbonate	22%	NaHCO ₃	n.a.	n.a.	144-55-8	205-633-8
D-(+)-Saccharose	51%	C ₁₂ H ₂₂ O ₁₁	n.a.	n.a.	57-50-1	200-334-9
Sunset Yellow E110	<0.1%	C ₁₆ H ₁₀ N ₂ Na ₂ O ₇ S ₂	n.a.	n.a.	2783-94-0	220-491-7
Brilliant Blue E133 Eurocert	<0.1%	C ₃₇ H ₃₄ N ₂ Na ₂ O ₉ S ₃	n.a.	n.a.	3844-45-9	223-339-8

4. FIRST AID MEASURES
After inhalation: Supply fresh air.*

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.*

After eye contact: Rinse out with plenty of water. Remove contact lenses.*

After swallowing: Rinse out mouth and drink plenty of water.*

*Consult a doctor if victim is feeling unwell or has persistent symptoms.

5. FIRE-FIGHTING MEASURES
Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards from substance or mixture: Carbon oxides, sodium oxides, ambient fire may liberate hazardous vapors

Advice for firefighters: In the event of fire, wear self-contained breathing apparatus. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES
Personal precautions: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions: Do not allow product to reach sewage system or water bodies.

Methods for cleaning up: Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area.

7. HANDLING AND STORAGE
Advice for handling: Work under hood. Do not inhale substance/mixture.

Storage conditions: Tightly closed. Dry (substance is hygroscopic).

Storage class: Storage class (TRGS 510): 11: Combustible Solids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Expose limit values: No further data

Respiratory protection: Not necessary if room is well-ventilated. Required when dusts are generated.

Hand, eye, skin protection: Wear protective gloves, safety glasses and protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystalline powder
Color	Green
Smell	Odorless
pH when diluted in demineralized water	10.01 at 25°C
Water solubility	Poor solubility

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions: Violent reactions possible with: Alkali metals and Acids.
 Generates dangerous gases or fumes in contact with: Ammonium compounds.

Conditions and materials to avoid: Exposure to moisture.

Hazardous decomposition products: In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Sodium carbonate : LD50 Oral (Rat) – 2.800mg/kg
 Sodium bicarbonate : LD50 Oral (Rat) – 4.000mg/kg
 : LC50 Inhalation (Rat) – 4,5h (4,74mg/L dust/mist)

Primary effect: - on the skin: Slight irritant effects.
 - on the eye: Slight eye irritation.

Systemic effect(s): Gastrointestinal disturbance, Coughing, Burning sensation, Wheezing, Headaches, Nausea, Vomiting, Shortness of breath, Laryngitis

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects.

12. 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.

13. DISPOSAL CONSIDERATIONS

May not be disposed together with household garbage, or to reach sewage system. Dispose according to local regulations.

14. TRANSPORT INFORMATION

Not subject to transport regulations.

15. REGULATORY INFORMATION

Designation according to EC guidelines:
 The material is not subject to classification according to EC lists and other sources of literature known to us.
 Observe the normal safety regulations when handling chemicals.

16. OTHER INFORMATION

The above information is based on the present state of knowledge and is believed to be correct. Its purpose is to characterize the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.