

MSDS in accordance with 91/155/EC

## 1. Identification of the substance/preparation and company

**Trade Name** : BREEZE HYPO 12%

**Application Area** : Laundry & Hard Surface Hygiene,

**Identification of the company :**

Name : UNITED KİMYA SANAYİ VE DİS TICARET LTD STİ

Address: Pendik, Dolayoba San. Sitesi B/10, İSTANBUL, TURKEY

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## 2. Composition/Information on ingredients

Name	CAS	% by Weight
Sodiumhypochlorite (as of chlorine)	7681-52-9	11.5 - 12.5
2-Phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1	< 1.0

## 3. Hazards Identification



C - Corrosive

R20 - Harmful by inhalation, R21 – Harmful in contact with skin, R22 – Harmful if swallowed, R31 – Contact with acids liberates toxic gas, R36 – Irritating to eyes, R38 – Irritating to skin,

## 4. First aid measures

**INGESTION** • Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.

- Do not induce vomiting unless directed to do so by medical personnel.
- Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
- If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
- Seek medical attention immediately.

**SKIN** • Flush contaminated area with water for at least 20 minutes.

- Remove contaminated clothing under running water.
- Completely decontaminate clothing before re-use, or discard.
- Seek medical attention immediately.

**INHALATION** • Remove victim to fresh air.

- Artificial respiration should be given if breathing has stopped and cardiopulmonary resuscitation if heart has stopped.
- Oxygen may be given if necessary.
- Seek medical attention immediately.

**EYES** • Contact for and remove any contact lenses. Immediately flush eyes with water for at least 15 minutes, holding the eyelids open.

- Seek medical attention immediately.

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## 5. Fire-fighting measures

**Flammability of the Product** : Non-flammable.

**Auto-Ignition Temperature** : Not applicable.

**Flash Points** : Not applicable.

**Flammable Limits** : Not applicable.

**Products of Combustion** : Not available.

**Fire Hazards in Presence of Various Substances**: combustible materials, metals, organic materials

**Explosion Hazards in Presence of Various Substances**: Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

**Fire Fighting Media and Instructions**: Not applicable.

## 6. Accidental release measures

**Small spills** : Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large Spill:**

Corrosive liquid to sensitive metal.

Stop leak safely. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product

## 7. Handling and storage

**Precautions:** Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals, acids.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. Store in light-resistant containers.

Storage stability: Shelf-life is 6 months.

## 8. Exposure controls / personal protection

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Personal Protection:**

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

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**9. Physical and chemical properties**

**Physical form** : Mobile liquid.

**Colour** : Transparent, light yellow as characteristics. No colouring added.

**Odour** : Characteristics. Chlorine-like (light)

**Density** : 1.08 – 1.12

**Boiling Point** : Decomposition temperature: 40°C.

**Freezing Point:** -

**pH** : 12.00 - 13.00.

**Viscosity** : 35.00-45.00 cP

**Solubility** : Soluble in water.

**10. Stability and reactivity**

**Chemical stability** : Stable under normal conditions.

**Conditions of Instability** : Light, air and heat

**Hazardous Reactivity** : Hazardous polymerisation will not occur. Reacts exothermically with acids . Reacts with acids liberating toxic gas. (Chlorine) Reacts with ammonia, amines and ammonium salts to product chloramines. Decomposes on heating to produce chlorine gas.

**Corrosivity** : Slightly corrosive in presence of aluminum or other sensitive metal.

**Special Remarks on Reactivity:**

Decomposed by carbon dioxide from air. Slowly decomposes on contact with air. Unstable in air unless mixed with sodium hydroxide.

Incompatible with ammonium acetate, ammonium carbonate, ammonium nitrate, ammonium oxalate, and ammonium phosphate. Decomposition of sodium hypochlorite takes place within a few seconds with these salts.

Also incompatible with primary amines, phenyl acetonitrile, ethyleneimine, methanol, acidified benzyl cyanide, formic acid, urea, nitro compounds, methylcellulose, cellulose, aziridine, ether, ammonia.

Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas.

Chloramine gas may be evolved when ammonia and bleach are mixed.

Decomposed by hot water.

Sensitive to light. Exposure to light accelerates decomposition.

**11. Toxicological information**

No adverse health effects expected if the product is handled in accordance with instructions.

Symptoms or effects that may arise if the product is mishandled or overexposure occurs are:

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

**Skin contact:** Contact with skin will result in severe irritation. Corrosive to skin – risk of skin burns.

**Inhalation:** Breathing in mists or aerosols may produce respiratory irritation. Delayed (up to 48 hours) fluid build up in the lungs may occur.

**Toxicological Data:** No LD50 data available for the product. For the constituent SODIUM HYPOCHLORITE: Oral LD50 (mice): 5800 mg/kg Eyes: Moderate irritant (rabbit).

**12. Ecological information**

**Biodegradability** : Biodegradable.

**Ecological toxicity** : Avoid contaminating waterways for sodiumhypochlorite.

**Aquatic toxicity** : Toxic to aquatic organisms. 48hr LC50 (fish): 0.07 - 5.9 mg/L.

**Terrestrial toxicity** : Expected to be harmful to terrestrial species.

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## 13. Disposal considerations

### Waste Disposal:

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transportation Data

- **ADR/RID** : Class 8 Corrosive Packing Group: 3
- **UN Number** : UN 1791
- **ICAO/IATA** : Class 8 Corrosive; Label 3 Packing Group: 3
- **IMDG/GGV** : Class 8 Corrosive Packing Group: 3; Marine Pollutant: No
- **Proper Shipping Name:** Hypochlorite Solution

## 15. Regulatory information

- **Classification according to EC rules:** Hazardous substance.
- **Labelling in accordance with EC Directives:**
- Hazard symbols:



C - Corrosive

Hazardous substances: Sodium hypochlorite (CAS# 7681-52-9; %5.0-5.5)

- **R Phrases:** R20, R21, R22 - Harmful if inhaled, contacted with skin or swallowed, R31 - Contact with acids liberates toxic gas, R36/R38 - Irritating to eyes and skin.
- **S Phrases:** S1 - Keep locked up, S2 - keep out of reach of children, S3/S9 - Keep in a cool and well ventilated area, S1 - Keep away from heat, S24/S25 - Avoid contact with skin and eyes, S26- In case with contact with eyes, rinse immediately with plenty of water and seek medical advice, S27- Take off immediately all contaminated clothes, S28- After contact with skin, wash plenty of soap-suds. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible). S50: Do not mix with acids. S61: Avoid release to the environment.

## 16. Other information

The data is based on our current level of knowledge, and are intended to describe the product with regard to the requirements of safety. This given data should not be taken to imply any guarantee of a particular or general specifications. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm that may be caused by the use of this information. In all cases, our general conditions of sale is applied.