

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code AP262
Product name ChargeSwitch® Pro LYSIS BUFFER

Company/Undertaking Identification

INVITROGEN CORPORATON
5791 VAN ALLEN WAY
PO BOX 6482
CARLSBAD, CA 92008
760-603-7200

INVITROGEN CORPORATION
5250 MAINWAY DRIVE
BURLINGTON, ONT
CANADA L7L 6A4
800-263-6236

GIBCO PRODUCTS
INVITROGEN CORPORATION
3175 STALEY ROAD P.O. BOX 68
GRAND ISLAND, NY 14072
716-774-6700

24 hour Emergency Response (Transport): 866-536-0631
301-431-8585
Outside of the U.S. ++1-301-431-8585

2. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous/Non-hazardous Components**

Chemical Name	CAS-No	Weight %
Sodium hydroxide	1310-73-2	0.1-1.0

3. HAZARDS IDENTIFICATION

3. HAZARDS IDENTIFICATION

Emergency Overview

Corrosive

The product causes burns of eyes, skin and mucous membranes

Form

Liquid

Principle Routes of Exposure/

Potential Health effects

Eyes

Causes burns.

Skin

Causes burns.

Inhalation

Inhaled corrosive substances can lead to a toxic edema of the lungs.

Ingestion

Ingestion causes burns of the upper digestive and respiratory tracts.

Specific effects

Carcinogenic effects

No information available

Mutagenic effects

No information available

Reproductive toxicity

No information available

Sensitization

No information available

Target Organ Effects

Eyes. Skin. Mucous membranes.

HMIS

Health	3
Flammability	0
Reactivity	0

4. FIRST AID MEASURES

Skin contact

Wash off immediately with plenty of water

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion

Never give anything by mouth to an unconscious person

Inhalation

Move to fresh air

Notes to physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray. Carbon dioxide (CO2). Foam. Dry powder.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Methods for cleaning up

Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes.

Storage

Keep in properly labelled containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Sodium hydroxide	2 mg/m ³	-	-	-

Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment
Hand protection	Protective gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	Liquid
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Important Health Safety and Environmental Information

Boiling point/range	°C No data available	°F No data available
Melting point/range	°C No data available	°F No data available
Flash point	°C No data available	°F No data available
Autoignition temperature	°C No data available	°F No data available
Oxidizing properties	No information available	
Water solubility	soluble	

10. STABILITY AND REACTIVITY

Stability

Stable.

Materials to avoid

No information available

Hazardous decomposition products

No information available

Polymerization

Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Sodium hydroxide	LDLo = 500 mg/kg	1350 mg/kg	No data available

Principle Routes of Exposure/

Potential Health effects

Eyes	Causes burns.
Skin	Causes burns.
Inhalation	Inhaled corrosive substances can lead to a toxic edema of the lungs.

Ingestion

Ingestion causes burns of the upper digestive and respiratory tracts.

Specific effects**Carcinogenic effects**

No information available

Mutagenic effects

No information available

Reproductive toxicity

No information available

Sensitization

No information available

Target Organ Effects

Eyes. Skin. Mucous membranes.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

No information available.

Mobility

No information available.

Biodegradation

Inherently biodegradable.

Bioaccumulation

Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION**IATA****Proper shipping name**

Corrosive liquid, basic, organic n.o.s. (sodium hydroxide solution)

Hazard Class

8

Subsidiary Class

None

Packing group

III

UN-No

3267

15. REGULATORY INFORMATION**International Inventories**

Chemical Name	TSCA	PICCS	ENCS	DSL	NDSL	AICS
Sodium hydroxide	Listed	Listed	Listed	Listed	-	Listed

U.S. Federal Regulations**SARA 313**

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

U.S. State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Sodium hydroxide	Listed	Listed	Listed	-	Listed

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS hazard class:

E Corrosive material

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

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End of Safety Data Sheet