

Safety Data Sheet

System flush cleaner

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	Deep Blue System flush cleaner
1.2. Relevant identified uses of the mixture	Deep Blue System flush cleaner
1.3. Details of the supplier of the safety data sheet:	Deep Blue Pool Supplies Box 8899 Hermitage, Corsham, SN13 8DT Telephone: +44 (0) 3330 907094 Fax: +44 (0) 3330 907094 E-mail: help@deepbluepoolsupplies.co.uk
Emergency telephone number:	Mon-Fri:01745 585995 or 111 Out of hours

2. Hazards identification.

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1B H314
Serious eye damage/eye irritation, Category 1
H318 Hazardous to the aquatic environment
— Acute Hazard, Category 1 H400 Hazardous to the aquatic environment — Chronic Hazard, Category 2
H411 Full text of H statements : see section 16
Adverse physicochemical, human health and environmental effects
Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2. Label elements:

Hazard pictograms (CLP) :



GHS05 GHS09

Signal word (CLP) :

Danger

Hazardous ingredients :

Quaternary ammonium compounds, benzyl-C12-14 (even-numbered)-alkyldimethyl, chlorides

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P273 - Avoid release to the environment.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor, a POISON CENTER.

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P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor, a POISON CENTER. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER.
P391 - Collect spillage.

2.3. Other hazards: None.

3. Composition/information on ingredients.

3.1. Substances: Information not relevant.

3.2. Mixtures.

Contains:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

CAS	CHIP Classification	CLP Classification	Percent
68424-85-1	Xn; R21/22, C; R34, N; R50	H302, H314, H318, H400, H410	1-5 %

PRIMARY ALCOHOL ETHOXYLATE

CAS	CHIP Classification	CLP Classification	Percent
68439-46-3	Xn;R22. Xi;R41	GHS05; H318, GHS07; H302	1 – 10 %

CITRIC ACID, MONOHYDRATE

CAS	EC/List Number	CLP Classification	Percent
5949-29-1	201-069-1	GHS07: Eye Irrit.2 - H319	15-30 %

4. First aid measures

4.1. Description of first aid measures

General information:

Remove soiled or soaked clothing immediately. Ensure that the First Aid Personnel are aware of the product involved and take precautions to protect themselves (e.g. wear personal protection equipment).

After inhalation:

Ensure supply of fresh air.

After contact with skin

In case of contact with skin wash off with soap and water.

After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

Call in a physician immediately and show them the Safety Data Sheet.

4.2. Most important symptoms and effects, both acute and delayed.

Symptoms:

No symptoms known currently.

Hazards:

No hazards known at this time.

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4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING MEDIA: Water spray. Carbon dioxide. Dry chemical powder.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS: None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE

IN THE EVENT OF FIRE: Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

5.3. Advice for fire fighters.

GENERAL INFORMATION: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SPECIAL PROTECTIVE EQUIPMENT

FOR FIRE-FIGHTERS: Wear full protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable personal protective equipment.

Ensure adequate ventilation. Ref Section 8

6.2. Environmental precautions

Contain contaminated water/fire-fighting water.

Do not allow entry to drains, water courses or soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, universal binder)

When picked up, treat material as prescribed under heading "Disposal".

6.4. Reference to other sections

Additional information

Small spills should present no problem. For information regarding Safe Handling, see chapter 7. For information regarding personal protective measures, see chapter 8. For information regarding Waste Disposal, see chapter 13.

7. Handling and storage.

7.1. Precautions for safe handling: Store in closed, labelled containers.

7.2. Conditions for safe storage, including any incompatibilities.

Normal storage conditions without particular incompatibilities.

7.3. Specific end use(s): Information not available. Refer to product label.

8. Exposure controls/personal protection

8.1. Information not available

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8.2. Exposure controls.

Observance of safety measures used in handling chemical substances.

Ventilation:	No specific recommendation made as there are no known adverse affects.
Respirators:	No specific recommendation made as there are no known adverse affects.
Protective Gloves:	No specific recommendation made as there are no known adverse affects.
Eye protection:	No specific recommendation made as there are no known adverse affects.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid.
Form:	Liquid.
Colour:	Clear.
Odour:	Characteristic.
pH value:	8.5.
Miscibility with water:	Miscible.
Solubility/qualitative:	Not tested.
Viscosity 20°C:	1.003.
Specific gravity 20° C:	1.012.

9.2. Other information: None.

10. Stability and reactivity.

10.1. Reactivity:	There are no particular risks of reaction with other substances in normal conditions of use. Stable under recommended transport or storage conditions.
10.2. Chemical stability:	The product is stable in normal conditions of use and storage.
10.3. Possibility of hazardous reactions:	No hazardous reactions are foreseeable in normal conditions of use and storage. Decomposition may occur on exposure to conditions or materials listed below.
10.4. Conditions to avoid:	No information available.
10.5. Incompatible materials:	No information available.
10.6. Hazardous decomposition products:	In the event of thermal decomposition or fire, vapours potentially dangerous to health may be

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released from burning packaging.

11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

11.1. Information on toxicological effects: Information not available.

12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should large quantities of the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity: Information not available.

12.2. Persistence and degradability: Information not available.

12.3. Bio accumulative potential: The product does not contain any substances expected to be bio accumulating.

12.4. Mobility: Miscible in water.

12.5. Results of PBT and vPvB assessment: Not identified as a PBT and vPvB.

12.6. Other adverse effects: Information not available.

13. Disposal considerations

13.1. Waste treatment methods

Product

Product should be disposed of in accordance with relevant regulations.

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14. Transport information

14.1 UN Number	: UN 1760
14.2 UN Proper shipping name AMMONIUM CHLORIDE)	: Corrosive liquid, n.o.s. (ALKYL DIMETHYL BENZYL
14.3 Transport hazard classes	: Class 8
14.4 Packing group	: Land Transport (ADR/RID) Transport hazard class 8 Packaging group III
	: Inland Waterways Transport Transport hazard class 8 Packaging group III
	: Air Transport (ICAO/IATA) Transport hazard class 8 Packaging group III
	: Marine Transport (IMDG/IMO) Transport hazard class 8 Packaging group III
14.5 Environmental hazards	: Classified as an environmentally hazardous

14.6. Special precautions for user See sections 6 to 8 of this Safety Data Sheet.

15. Regulatory information

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

Other regulations: Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment: No chemical safety assessment has been processed for the mixture.

16. Other information

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limit
PBT	Persistent, Bio accumulative, Toxic
PNEC	Predicted No Effect Concentration

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bio accumulative

The data is based on the current state of our knowledge and are intended to describe the product regarding the requirements of safety. The data should not be taken to imply any guarantee of a general or specific specification. It is the responsibility of the user of the product to ensure to their satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.