

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name HOSPEC THICK BLEACH

Product No.: 0018000846

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For cleaning and bleaching of toilet bowls

Uses advised against: Do not mix with other household chemicals particularly those containing acids.

1.3 Details of the supplier of the safety data sheet

Manufacturer

McBride Plc MIDDLETON
Middleton Way, Middleton
MANCHESTER M24 4DP

Telephone: + 44 (0) 161 653 9037

Website: <http://www.detergentinfo.com>

E-mail: product.legislation@mcbride.eu

1.4 Emergency telephone number: UK + 44 (0) 161 653 9037

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards

Corrosive to metal Category 1 H290: May be corrosive to metals.

Health Hazards

Skin corrosion Category 1A H314: Causes severe skin burns and eye damage.

Serious eye damage Category 1 H318: Causes serious eye damage.

Environmental Hazards

Acute hazards to the aquatic environment Category 1 H400: Very toxic to aquatic life.

Chronic hazards to the aquatic environment Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Contains: SODIUM HYPOCHLORITE
SODIUM LAURETH SULFATE
SODIUM HYDROXIDE



Signal Word: Danger

Hazard Statement(s): H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

General advice: P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.

Prevention: P234: Keep only in original packaging.
P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P390: Absorb spillage to prevent material damage.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container in accordance with local requirements for domestic waste disposal.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes

SODIUM HYPOCHLORITE	3 - <5%	7681-52-9	231-668-3	01-2119488154-34	10	
SODIUM LAURETH SULFATE	1 - <3%	9004-82-4		No data available.	1	
SODIUM HYDROXIDE	0.5 - <1%	1310-73-2	215-185-5	01-2119457892-27	1	#
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	0.1 - <1%	68955-55-5	273-281-2	01-2119489396-21	1	
C12-14 PARETH	0.1 - <1%	68439-50-9		No data available.	1	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

Classification

Chemical name	Classification	Notes
SODIUM HYPOCHLORITE	Met. Corr.: 1: H290 STOT SE: 3: H335 Eye Dam.: 1: H318 Skin Corr.: 1B: H314 Aquatic Acute: 1: H400 Aquatic Chronic: 1: H410	
SODIUM LAURETH SULFATE	Skin Irrit.: 2: H315 Eye Dam.: 1: H318 Aquatic Chronic: 3: H412	
SODIUM HYDROXIDE	Met. Corr.: 1: H290 Skin Corr.: 1A: H314	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	Acute Tox.: 4: H302 Skin Irrit.: 2: H315 Eye Dam.: 1: H318 Aquatic Acute: 1: H400 Aquatic Chronic: 2: H411	
C12-14 PARETH	Eye Irrit.: 2: H319 Aquatic Acute: 1: H400 Aquatic Chronic: 3: H412	

The full text for all H-statements is displayed in section 16.
CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation:** Call a physician or poison control center immediately. Move to fresh air.
- Skin Contact:** Get medical attention immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.
- Eye contact:** Get medical attention immediately. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.
- Ingestion:** Call a physician or poison control center immediately. Do NOT induce vomiting. Get medical attention immediately. If swallowed, rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed: Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

- Hazards:** No special precautionary health measures should be needed under anticipated conditions of use.
- Treatment:** Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: Wear self-contained breathing apparatus and protective clothing.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with eyes and prolonged or repeated contact with skin.

6.2 Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up: Dike far ahead of larger spill for later recovery and disposal. Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Do not get in eyes. Wash hands thoroughly after handling. Use only as directed. Provide adequate ventilation. Avoid contact with skin.

7.2 Conditions for safe storage, including any incompatibilities: Store away from incompatible materials. Store in original tightly closed container.

7.3 Specific end use(s): For cleaning and bleaching of toilet bowls

SECTION 8: Exposure controls/personal protection

**8.1 Control Parameters
Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
SODIUM HYDROXIDE	STEL	2.000000 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

**8.2 Exposure controls
Appropriate Engineering Controls:** No data available.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Do not eat, drink or smoke when using the product. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Use approved safety goggles or face shield.

**Skin protection
Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: No data available.

Respiratory Protection: Not relevant, due to the form of the product.

Hygiene measures: Do not get in eyes. Avoid contact with skin. Wash hands thoroughly after handling.

Environmental Controls: No eSDS available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Yellow
Odor:	No data available.
Odor Threshold:	No data available.
pH:	> 11.50
Freezing point:	< 0.00 °C
Boiling Point:	> 70.00 °C
Flash Point:	> 61.00 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	Not classified
Oxidizing properties:	No data available.

9.2 Other information

VOC Content: EC Directive 2010/75/EU: 38.88 g/l ~4.55 % (calculated)

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	None under normal conditions.
10.4 Conditions to avoid:	Avoid heat or contamination. Do not freeze.

10.5 Incompatible Materials: Strong acids. Strong oxidizing substances. Strong bases.

10.6 Hazardous Decomposition Products: By fire, toxic gases may be formed (CO_x, NO_x).

SECTION 11: Toxicological information
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Information on likely routes of exposure

Inhalation: None under normal conditions.

Skin Contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

SODIUM HYPOCHLORITE No data available.

SODIUM LAURETH SULFATE No data available.

SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES LD 50 (Rat): 846.000000 mg/kg

C12-14 PARETH No data available.

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

SODIUM HYPOCHLORITE No data available.

SODIUM LAURETH SULFATE No data available.

SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES No data available.

C12-14 PARETH No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

Repeated dose toxicity

Product:	No data available.
Specified substance(s)	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

Skin Corrosion/Irritation:

Product:	Causes severe burns.
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Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

Serious Eye Damage/Eye Irritation:

Product:	Causes serious eye damage.
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Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

Respiratory or Skin Sensitization:

Product:	Based on available data, the classification criteria are not met.
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Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

Germ Cell Mutagenicity

In vitro

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

In vivo

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES	No data available. No data available.
C12-14 PARETH	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

SODIUM HYPOCHLORITE SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES C12-14 PARETH	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

SODIUM HYPOCHLORITE SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES C12-14 PARETH	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

SODIUM HYPOCHLORITE SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES C12-14 PARETH	No data available.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

SODIUM HYPOCHLORITE SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18- ALKYLDIMETHYL, N- OXIDES C12-14 PARETH	No data available.

SECTION 12: Ecological information

General information: Contains a substance which causes risk of hazardous effects to the environment. This material has not been tested for environmental effects.

12.1 Toxicity

Acute toxicity

Fish

Product: No data.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.
C12-14 PARETH	No data available.

Aquatic Invertebrates

Product: No data.

Specified substance(s)

SODIUM HYPOCHLORITE	EC 50 (Ceriodaphnia dubia, 48.0 h): 35.000000 µg/l (flow-through)
SODIUM LAURETH SULFATE	Experimental result, Key study
SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.
C12-14 PARETH	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.
C12-14 PARETH	No data available.

Aquatic Invertebrates

Product: No data.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.
C12-14 PARETH	No data available.

Toxicity to Aquatic Plants

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

SODIUM HYPOCHLORITE	NOEC (Algae (<i>Pseudokirchneriella subcapitata</i>), 72.00 h): 0.0054000 mg/l (Static)
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available. EC 50 (Green algae (<i>Scenedesmus acutus</i>), 72.00 h): 0.2400000 mg/l (Static) NOEC (Green algae (<i>Scenedesmus acutus</i>), 72.00 h): 0.0625000 mg/l (calculated)
C12-14 PARETH	No data available.

12.2 Persistence and Degradability

Biodegradation

Product: The surfactant(s) contained in this mixture comply with biodegradability criteria as laid down in regulations (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member state. The other components of this mixture are either environmentally inert or absorbed onto sewage and sediment etc or will biodegrade to substances which are likely to be of low environmental impact when the mixture is used as directed.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.
C12-14 PARETH	No data available.

BOD/COD Ratio

Product: No data available.

Specified substance(s)

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.

AMINES, C12-18-
ALKYLDIMETHYL, N-
OXIDES
C12-14 PARETH No data available.
No data available.

12.3 Bioaccumulative potential

Product: The product is not bioaccumulating.

Specified substance(s)

SODIUM No data available.
HYPOCHLORITE
SODIUM LAURETH No data available.
SULFATE
SODIUM HYDROXIDE No data available.
AMINES, C12-18- No data available.
ALKYLDIMETHYL, N-
OXIDES
C12-14 PARETH No data available.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

SODIUM HYPOCHLORITE No data available.
SODIUM LAURETH No data available.
SULFATE
SODIUM HYDROXIDE No data available.
AMINES, C12-18- No data available.
ALKYLDIMETHYL, N-
OXIDES
C12-14 PARETH No data available.

12.5 Results of PBT and vPvB assessment: Based on available data, the classification criteria are not met.

SODIUM No data available.
HYPOCHLORITE
SODIUM LAURETH No data available.
SULFATE
SODIUM HYDROXIDE No data available.
AMINES, C12-18- No data available.
ALKYLDIMETHYL, N-
OXIDES
C12-14 PARETH No data available.

12.6 Other adverse effects: Very toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

12.7 Additional Information: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose of contents/container in accordance with local requirements for domestic waste disposal.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws. Do not allow to enter drains, sewers or watercourses.

SECTION 14: Transport information

ADR

14.1 UN Number:	UN 1791
14.2 UN Proper Shipping Name:	HYPOCHLORITE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Hazard No. (ADR):	80
Tunnel restriction code:	
14.4 Packing Group:	III
Limited quantity	5.00L
Excepted quantity	PIN for exception quantity
14.5 Environmental Hazards:	Yes
Marine Pollutant	No
14.6 Special precautions for user:	Not regulated.

ADN

14.1 UN Number:	UN 1791
14.2 UN Proper Shipping Name:	HYPOCHLORITE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Hazard No. (ADR):	—
14.4 Packing Group:	III
Limited quantity	5.00L
Excepted quantity	PIN for exception quantity
14.5 Environmental Hazards:	Yes
Marine Pollutant	No
14.6 Special precautions for user:	Not regulated.

RID

14.1 UN Number:	UN 1791
14.2 UN Proper Shipping Name	HYPOCHLORITE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
14.4 Packing Group:	III
14.5 Environmental Hazards:	Yes
Marine Pollutant	No
14.6 Special precautions for user:	Not regulated.

IMDG

14.1 UN Number:	UN 1791
14.2 UN Proper Shipping Name:	HYPOCHLORITE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
14.4 Packing Group:	III
Limited quantity	5.00L
Excepted quantity	PIN for exception quantity
14.5 Environmental Hazards	No
Marine Pollutant	Yes
14.6 Special precautions for user:	Not regulated.

IATA

14.1 UN Number:	UN 1791
14.2 Proper Shipping Name:	HYPOCHLORITE SOLUTION
14.3 Transport Hazard Class(es):	
Class:	8
Label(s):	8
14.4 Packing Group:	III
Cargo aircraft only :	852
Passenger and cargo aircraft :	852
Limited quantity:	1.00L Y841
Excepted quantity	PIN for exception quantity
14.5 Environmental Hazards:	Yes
Marine Pollutant	No
14.6 Special precautions for user:	Not regulated.
Cargo aircraft only:	Allowed.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006, REACH, Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

International regulations

Montreal protocol

Stockholm convention

Rotterdam convention

Kyoto protocol

SECTION 16: Other information

Revision Information: Not relevant.

References

PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Met. Corr. 1, H290

Skin Corr. 1A, H314

SDS_GB - 0018000846

Eye Dam. 1, H318
Aquatic Acute 1, H400
Aquatic Chronic 2, H411

DetNet Classification

Not relevant.

Logging Number:

22.11.2018

Issue Date:

SDS No.:

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.