SAFETY DATA SHEET
FRESHCLEAN

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

1.1 Product identifier

Product name: FRESHCLEAN

1.2 Relevant identified uses of the substance/mixture and uses advised against
Heavy duty hard surface cleaner.

1.3 Details of the supplier of the safety data sheet

SUPPLIER:

CHEMICAL SOLUTIONS UK
42 Kennel Lane
Fetcham
SURREY
08452500943
sales@chemical-solutions.co.uk

1.4 Emergency telephone number
01372 456108

2. Hazards identification

2.1 Classification of the substance or mixture
Classification under CLP Regs.: Eye Dam. 1; H318; Skin Irritant 2: H315

2.2 Label elements
Label elements under CLP:
Contains Sodium hydroxide; Sodium metasilicate; Ethoxylated alcohol
Hazard pictograms: GHS05

Signal Word: Danger
Hazard Statements: H318: Causes serious eye damage. H315: Causes skin irritation.
Precautionary statement: PREVENTION: Wear protective gloves, clothing and eye protection. Wash hands thoroughly after handling
RESPONSE: IF ON SKIN (or hair)**:** Wash immediately with soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTRE or doctor/physician. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse.

2.3 Other hazards
PBT: this material does not contain any substance identified as a PBT or vPvB substance

3. Composition/information on ingredients

3.1 Substances N/A

3.2 Mixtures

Hazardous ingredients:

CAS	EINECS	Classification CLP	Concentration %w/w
Sodium metasilicate pentahydrate (REACH Reg. No. 01-2119449811-37)			
6834-92-0	229-912-9	Met. Corr. 1 H290; Skin corr. 1B H314: Eye dam. 1 H318; STOT SE3 H335	2-5
Ethoxylated alcohol C 9-11			
68439-45-2		Eye dam.1 H318: Acute tox.4 H302	2-5
Sodium C10-C16 alkyl ethoxysulphate (REACH Reg. No. 01-2119488639-16)			
68585-34-2	500-223-8	Skin irrit.2 H315; Eye dam.1 H318; Aquatic chr. 3 H412	1-2
Sodium hydroxide (REACH Reg. No. 01-2119457892-27)			
1310-73-2	215-185-5	Met. corr. 1 H290; Skin corr. 1A H314	0-1
Pine oil			
34266-48-5	232-350-7	Skin irrit.2 H315; Skin sens.1 H317; Eye irrit.2 H319; Aq. Chron.2 H411	0-1

See section 16 for full text of H statements.

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Seek medical advice.

Skin contact: Remove at once all contaminated clothing. Wash area with soap and water. Seek medical advice if irritation persists.

Ingestion: DO NOT induce vomiting. Give plenty of water to drink and seek immediate medical attention.

Inhalation: Move to fresh air. Seek medical attention if recovery is not rapid or complete

4.2 Most important symptoms and effects both acute and delayed

There may be irritation and redness at site of contact

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Choice of extinguisher should be based on other surrounding materials. Containers may be kept cool with water spray.

Unsuitable agents:

5.2 Special hazards arising from the substance or mixture

Carbon dioxide and carbon monoxide may be produced

5.3 Advice for firefighters

Wear protective clothing to prevent contact in event of bursting containers

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to sect. 8 of this SDS for protective clothing

6.2 Environmental precautions

Uncontrolled discharges into water courses must be notified to the appropriate regulatory authorities

6.3 Methods and material for containment and cleaning up
Small spillages may be rinsed away with plenty of water. Larger spillages should be contained and soaked up in inert medium such as sand or suitable sorbent material. Transfer to a labelled, sealed plastic container for disposal in accordance with local regulations.
6.4 Reference to other sections
See section 8 for personal protective measures.

7. Handling and storage

7.1 Precautions for safe handling
Avoid contact with eyes and skin.
7.2 Conditions for safe storage, including any incompatibilities
Store in original container, tightly closed and out of reach of children. Do not mix with other chemicals.
7.3 Specific end use
See sect. 1.2

8. Exposure controls/personal protection

8.1 Control parameters
Substances assigned Workplace Exposure Limits

Name	type	Long term	Short term
Sodium Hydroxide	WEL		(15mins) 2mg/m^3
1-Methoxy-2-propanol	WEL	(8hrTWA) 100ppm (sk)	(15mins) 150ppm (sk)

(sk) = may be absorbed through skin.

DNEL 1-Methoxy-2-propanol

Exposure	Value	Population	Effect
Dermal	50.6mg/kg/day	workers	Long term
Inhalation	369mg/m^3	workers	Long term

PNEC 1-Methoxy-2-propanol: Fresh water 10mg/l; Marine water 1.0mg/l; STP 100mg/l; Soil 2.47mg/kg
8.2 Exposure controls
Engineering measures: Ensure good ventilation.
Hands: Wear rubber or PVC gloves if skin contact is unavoidable.
Eyes: Safety goggles.
Skin: Appropriate workwear to prevent skin contact.
Respiratory: Avoid working in spray mist. Exposure limits apply to exposure by inhalation and are unlikely to be reached in normal use.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: Clear blue liquid
Odour: Pine
Density at 20°C: 1.04 - 1.05kg/ltr
Boiling point/range: >100°C
Oxidising: No
pH (1% solution): 11.0
Solubility: Completely soluble in water.
Flash point: N/A
Vapour pressure: N/A
9.2 Other information
No further relevant information.

10.Stability and reactivity

10.1 Reactivity
Not reactive under normal conditions but see section 10.5
10.2 Chemical stability
Stable under normal conditions of transport and storage.
10.3 Possibility of hazardous reactions
Hazardous reactions will not occur under normal conditions. See sect. 10.5
10.4 Conditions to avoid
No special measures
10.5 Incompatible materials
Alkaline products can react with light metals (aluminium, tin, zinc) with the evolution of hydrogen gas. Avoid contact with acids, strong oxidising agents.
10.6 Hazardous decomposition products
Oxides of carbon and other fumes may be produced on decomposition at very high temperatures.

11.Toxicological information

11.1 Information on toxicological effects.
Sodium hydroxide LD50: 325mg/kg (oral, rat). Ethoxylated alcohol C9-11: LD50: >200<2000mg/kg (oral, rat).
Sodium metasilicate LD50 1280mg/kg;
Effects of overexposure:-
Eyes: Severe pain, redness and watering, possible tissue damage.
Skin: Irritation, redness and defatting leading to cracking.
Ingestion: Sore throat and mouth, abdominal pain, vomiting.
Inhalation (mist): Coughing, shortness of breath, irritation to membranes of nose and throat.

12.Ecological information

12.1 Toxicity
Sodium hydroxide LC50, 96hrs, fish: 33 - 189mg/l; Ethoxylated alcohol LC50, 96hrs, fish: 1- 10mg/l
Sodium metasilicate LC50 3185mg/l (fish, 96 hrs), EC50 4857mg/l (Daphnia, 48 hrs)
12.2 Persistence and degradability
Components are biodegradable.
12.3 Bioaccumulative potential
The product will not bioaccumulate.
12.4 Mobility in soil
The product is soluble in water.
12.5 Results of PBT and vPvB assessment
The product does not contain any ingredient identified as a PBT or vPvB substance.
12.6 Other adverse effects
Uncontrolled discharge of concentrate may have adverse effects on aquatic organisms due to Ph effects.

13.Disposal considerations

13.1 Waste treatment methods
Comply with local regulations. Do not allow concentrate to enter water systems. Residues should be disposed of as controlled waste to a licensed site.
Packaging: Used packaging should be cleaned thoroughly with water and may be suitable for recycling.

14.Transport information

14.1 UN Number
Not classified as hazardous for transport.
14.2 UN Proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user

15.Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture
Detergent Regulations: Contains: less than 5% non-ionic surfactants, anionic surfactants, perfumes
15.2 Chemical safety assessment
A chemical safety assessment has not been carried out for this product.

16.Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010
The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture.
The full text of the H statements referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture.

H290: May be corrosive to metals.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Cause skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Abbreviations and Acronyms

ADR	**European Agreement concerning the International Carriage of Goods by Road**
CAS	**Chemical Abstracts Service**
CHIP	**Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45.EC and 67/548/EC**
CLP	**Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008**
CMR	**Carcinogenic-mutagenic-toxic for reproduction**
EINECS	**European Inventory of Existing Commercial Chemical Substances**
GHS	**Globally Harmonised System of Classification and Labelling of Chemicals**
IATA	**International Air Transport Association**
IMDG	**International Maritime Dangerous Goods Code**
LC50	**Lethal Concentration, 50%**
LD50	**Lethal Dose, 50%**
OEL	**Occupational Exposure Limit**
PBT	**Persistent, Bioaccumulative, Toxic**
vPvB	**very Persistent, very Bioaccumulative**
RID	**Convention concerning International Carriage by Rail**
WEL	**Workplace Exposure Limit**
VOC	**Volatile Organic Compound**