

SAFETY DATA SHEET

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 Issued: 13/05/2026; Revision No.1
 Regulation S.I. 2019 No. 758

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

1.1 Product Identifier

Material name : Tech Kleen
 Product code :

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

Product use : Washing preparation

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Astral CSL
 Unit 36 Greenfield Business Park
 Bagillt
 CH8 7HJ
 Tel. : 0161 643 0260

Email (for SDSs) sales@astralcsl.com

1.4 Emergency tel. no. : 0161 643 0260 (Office hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 as amended by GB Regulation S.I.2019/720 and S.I.2020/1567:

Physical and Chemical Hazards	Not classified.
Human health	Sk. Corr.1; H314; Eye Dam.1; H318
Environment	Not classified.

2.2 Label elements

Signal word: Danger **Contains:** Sodium hydroxide, Alcohols, C9-11, ethoxylated, Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides



Pictograms:

Hazard statements: H314 Causes severe skin burns and eye damage
 H318 Causes serious eye damage.

Precautionary statements:

P260 Do not breathe mist/vapour/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 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.
 P501 Dispose of contents/container in accordance with local/national regulations.

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2.3 Other hazards: No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Index No./ Reg. No	Classification	Content
SODIUM HYDROXIDE	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Eye Irrit. 2; H319 (0.5% ≤ C < 2%) Skin Irrit. 2; H315 (0.5% ≤ C < 2%) Skin Corr. 1B; H314 (2% ≤ C < 5%) Skin Corr. 1A; H314 (C ≥ 5%)	1-5%
ALCOHOLS, C9-11, ETHOXYLATED	68439-46-3 614-482-0 01-2119980051-45	Ac.Tox.4; H302 Eye Dam.1; H318	1-3%
QUATERNARY AMMONIUM COMPOUNDS, C12-14-ALKYL(HYDROXYETHYL)DIMETHYL, ETHOXYLATED, CHLORIDES	1554325-20-0 810-152-7	Ac.Tox.4; H302 Sk.Irrit.2; H315 Eye Dam.1; H318	0.1-1%
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5 203-961-6 603-096-00-8 01-2119475104-44	Eye Irrit.2; H319	0.1-1%

Substance classifications are taken from the GB Mandatory Classification and Labelling (MCL) list, or if absent, from supplier's information.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash skin immediately with plenty of water. Chemical burns should be treated promptly by a doctor,

Eye contact: Rinse with water for 10 minutes and seek immediate medical advice.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: No undue effects in normal circumstances. Avoid inhalation of any spray mist generated in use.

4.2 Most important symptoms and effects, both acute and delayed: Skin contact: may cause burns. Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

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

5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media: The product is not flammable. Use extinguishing media appropriate for the surrounding environment.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage. Wash contaminated clothing before reuse.

6.2 Environmental precautions

Prevent product from entering drains. If product enters waterways, inform relevant authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of any spray mist generated in use. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Chemical name	8hr TWA	15min STEL	Reference
SODIUM HYDROXIDE	-	2 mg/m ³	EH40/2005
2-(2-BUTOXYETHOXY)ETHANOL	67.5 mg/m ³ /10 ppm	101.2 mg/m ³ /15 ppm	EH40/2005

DNEL:

DNEL (workers)	Sodium hydroxide	Alcohols, C9-11, ethoxylated	2-(2-butoxyethoxy)ethanol
Chronic systemic effects (dermal)	-	2080 mg/kg bw/day	-
Chronic systemic effects (inhalation)	-	294 mg/m ³	-
Chronic local effects (inhalation)	1 mg/m ³	-	67.5 mg/m ³
Acute local effects (inhalation)	-	-	101.2 mg/m ³

DNEL (consumers)	Sodium hydroxide	Alcohols, C9-11, ethoxylated	2-(2-butoxyethoxy)ethanol
Chronic systemic effects (dermal)	0.47 mg/kg bw/day	1250 mg/kg bw/day	-
Chronic systemic effects (inhalation)	0.82 mg/m ³	87 mg/m ³	-
Chronic systemic effects (oral)	0.47 mg/kg bw/day	25 mg/kg bw/day	6.25 mg/kg bw/day
Chronic local effects (inhalation)	1 mg/m ³	-	-

PNEC:

Environment	Alcohols, C9-11, ethoxylated	2-(2-butoxyethoxy)ethanol
Aquatic compartment		
Fresh water	103.79 µg/L	11 mg/L
Marine water	103.79 µg/L	110 µg/L
Water-intermittent (sporadic) release	14 µg/L	11 mg/L
Dry Sediment – fresh water	13.7 mg/kg	4.4 mg/kg
Dry Sediment – marine water	13.7 mg/kg	440 µg/kg
Terrestrial compartment		
Dry soil	1 mg/kg	320 µg/kg
Sewage treatment plant	1.4 mg/L	No hazard identified

8.2 Exposure controls

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If in doubt, suitable respiratory protection should be worn.

Personal protective equipment

Respiratory protection: If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required, in which case use a respirator fitted with an organic vapour filter

Hand protection: Wear chemically resistant gloves such as nitrile rubber approved to standard EN 374; material thickness 0.5mm; break through time ≥ 8 hours. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice.

Eye protection: Chemical splash goggles if eye contact is reasonably probable. The selected goggles or glasses must satisfy the European standard EN ISO 16321-1.

Skin and body protection: Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The selected protective clothing has to satisfy the standard EN 13034, which describes clothing offering limited 8 hour protection against splashes. Use PPE that is chemically resistant to the product and prevents skin contact.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the workday. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Colourless liquid
Odour	Mild
Odour Threshold	No data available
Flammability	Non-flammable
Flash point	>100°C
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosive properties	Not explosive
Thermal decomposition	>200°C
Auto-ignition temperature	No data available
Oxidising properties	Non-oxidising
Solubility in water	Completely soluble
Solubility in other solvents	Not determined.
pH	~13.0-14.0
Melting point/range	~0°C
Boiling point/range	>100°C
Specific gravity	No data available
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	Not applicable for mixtures
Viscosity (kinematic)	Non-viscous
Evaporation rate	No data available

9.2 Other information No data available

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10. STABILITY AND REACTIVITY

- 10.1 Reactivity** Exothermic reaction with acids.
- 10.2 Chemical stability** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions** None if stored and used as directed.
- 10.4 Conditions to avoid** Heat. Hot surfaces.
- 10.5 Incompatible materials** Strong acids. Strong oxidising agents.
- 10.6 Hazardous decomposition products** Toxic and irritating fumes may be released; oxides of carbon; ammonia.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The mixture as a whole has not been tested for toxicological effects. Toxicological data on individual components is listed below.

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Sodium Hydroxide	2000 mg/kg (Rat)	No data available	No data available
Alcohols, C9-11, ethoxylated	301 mg/kg (Rat)	>1600 mg/m ³ (Rat)	2001 mg/kg (Rabbit)
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides	833 mg/kg (Rat)	No data available	No data available
2-(2-butoxyethoxy)ethanol	2410 mg/kg (Mouse)	No data available	2764 mg/kg (Rabbit)

- Acute toxicity:** Based on available data the classification criteria are not met.
- Skin corrosion/irritation:** The mixture is classified as Sk. Corr.1, H314: Causes severe skin burns and eye damage.
- Serious eye damage/eye irritation:** The mixture is classified as Eye Dam.1, H318: Causes serious eye damage.
- Respiratory or skin sensitisation:** Based on available data the classification criteria are not met.
- Repeated dose toxicity:** Based on available data the classification criteria are not met.
- Carcinogenicity:** Based on available data the classification criteria are not met.
- Mutagenicity:** Based on available data the classification criteria are not met.
- Toxicity for reproduction:** Based on available data the classification criteria are not met.
- Specific target organ toxicity (STOT):** Based on available data the classification criteria are not met.
- Aspiration hazard:** Based on available data the classification criteria are not met.
- Further information** No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: Based on available data the classification criteria are not met.

The mixture as a whole has not been tested for ecological effects. Ecological data on individual components is listed below.

Chemical name	Species	Test	Value
Sodium hydroxide	Daphnia	EC50 24h	76 mg/l
	Rainbow trout	LC50 48h	45.4mg/l
	Algae	-	No data available
Alcohols, C9-11, ethoxylated	Daphnia	LC50 48h	2.5 mg/l
	Rainbow trout	LC50 96h	5-7 mg/l
	Algae	ErC50 96h	1.4 mg/l
Quaternary ammonium compounds, C12-14-alkyl(hydroxy-ethyl)dimethyl, ethoxylated, chlorides	Daphnia	EC50 48h	>1-10 mg/l
	Fish	LC50 96h	>10-100 mg/l
	Algae	EC50 48h	>1-10 mg/l
2-(2-butoxyethoxy)ethanol	Daphnia	EC50 48h	1101 mg/l
	Fish	LC50 96h	1300 mg/l
	Algae	EC50 72h	1101 mg/l

12.2 Persistence and degradability

Readily biodegradable.

The surfactant(s) contained in this preparation complies (comply) with the Biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents, (or are undergoing testing to obtain a derogation within the terms of the directive). Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

Soluble in water.

12.5 Results of PBT and vPvB assessment

Contains no PBT or vPvB substances.

12.6 Other adverse effects

No data available.


13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Disposal operations: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations. Do not dispose of waste into sewer. Contact licensed waste disposal company. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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14. TRANSPORT INFORMATION

14.1 UN number	ADR/RID/ADN; IMDG; ICAO	1760
14.2 UN proper shipping name:	CORROSIVE LIQUID, N.O.S (Sodium hydroxide)	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	8
	Transport labels	
14.4 Packing Group	ADR/RID/ADN; IMDG; ICAO	II
14.5 Environment hazards	Marine Pollutant	No
14.6 Special precautions for user	EMS Tunnel restriction code	F-A, S-B (E)
14.7 Maritime transport in bulk according to IMO instruments:	Not applicable.	

15. REGULATORY INFORMATION

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

UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

GB MCL (Mandatory Classification and Labelling).

Statutory Instruments

S.I 2009 No. 716: The Chemicals (Hazard information and Packaging for Supply) Regulations 2009.

S.I. 2019 No. 758: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019.

S.I. 2019 No. 720, S.I. 2020 No. 1567 and S.I. 2020 No. 1577: The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports (CSA/CSR) are not required for mixtures.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with the requirements of S.I. 2019 No. 758: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 and related regulations.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008 as amended by GB Regulation S.I.2019/720 and S.I.2020/1567:

Physical hazards: Not classified.
Health hazards: Calculation method.
Environmental hazards: Not classified.

Full text of H-statements referred to under sections 2 and 3

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.

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society).
STOT: Single Target Organ Toxicity
TWA: Time-weighted average.
STEL: Short-term exposure limit.
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative, Toxic.
vPvB: very Persistent and very Bioaccumulative.
EC50: Effective Concentration, 50 percent.
LC50: Lethal Concentration, 50 percent.
LD50: Lethal Dose, 50 percent.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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