SAFETY DATA SHEET

According to EC Regulation 1907/2006/EC - revision 2020/878

Revision No. 4.8

Print Date 04/02/2024 **Creation Date** 02/02/2015 **Revision date** 29/12/2023

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

1.1. Product identifier

Product Name: SHINY SIDE
Product Code: 11004178X1 (CLP)
UFI: F503-Y0E3-Q00T-HNDC

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

Recommended use
Aluminium Cleaner.

1.3. Details of the supplier of the safety data sheet

NCH UK & Ireland,
Arrowmere House, Bilston,
WV14 0QL
Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502
E-mail address technical_uk@nch.com
Website address www.ncheurope.com

1.4. Emergency telephone number

UK - 01902 510200 (available during Office Hours)
In Republic of Ireland (available from 8am to 10pm daily): 01 809 2166

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations
Skin corrosion: Category 1A
Serious damage to eyes: Category 1
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)
Contains SODIUM HYDROXIDE.
Hazard pictograms

Signal word Danger
Hazard statements
H314 - Causes severe skin burns and eye damage
Precautionary statements
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 - Immediately call a POISON CENTER or doctor
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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
P260 - Do not breathe vapors.
P280 - Wear protective gloves/protective clothing/eye protection.
For industrial and institutional use only.
Keep out of reach of children

2.3. Other hazards

No additional hazards identified.
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2 Mixture

Chemical name	CAS No	EC No (EU Index Index No)	EU - REACH reg number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
SODIUM HYDROXIDE	1310-73-2	215-185-5	01-2119457892-27	10 - < 20	Skin Corr. 1A (H314) Met Corr.1 (H290)	
ALKYLPOLYGLYCOSIDE C8-10	68515-73-1	500-220-1	01-2119488530-36	1 - < 3	Eye Dam. 1 (H318)	

For any H statements mentioned in this section, see the full text in section 16.

Chemical name	EU - CLP (1272/2008) - Specific Concentration Limits
SODIUM HYDROXIDE	H319 0.5%<=C<2% H314 C>=5% H314 2%<=C<5% H315 0.5%<=C<2%

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Do not breathe vapours or spray mist. Do not get in eyes, on skin or on clothing.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact

Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Ingestion

Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Show the Label to the Doctor.

Inhalation

Move to fresh air. If not breathing, give artificial respiration. Get medical attention immediately. If exposed to high concentrations of the vapours / mists, move to fresh air.

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

Sensitisation

No information available.

Eye contact

Corrosive. Causes burns and may lead to corneal damage and possible blindness.

Skin contact

Corrosive, Causes burns and possible deep ulcerations or scarring.

Ingestion

Ingestion may result in severe burns to the mouth, throat and digestive tract.

Inhalation

Inhalation may result in irritation or burns to the respiratory tract.

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

Notes to physician

The product causes burns of eyes, skin and mucous membranes. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use:. Water spray. Foam. Carbon dioxide (CO2). Dry chemical.

5.2. Special hazards arising from the substance or mixture

Material can create slippery conditions.

5.3. Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

6.2. Environmental precautions
Avoid release of neat product into surface water and sanitary sewage system.

6.3. Methods and material for containment and cleaning up
Methods for Containment
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning up
Clean preferably with a detergent, do not use solvents. Neutralize with an acid.

6.4. Reference to other sections
Refer to sections 7, 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Training : Due to the hazardous nature of this product, training in its use is recommended. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits
If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Chemical name	European Union	The United Kingdom	France	Germany	Austria
SODIUM HYDROXIDE		STEL: 2 mg/m^3	VME: 2 mg/m^3		STEL: 4 mg/m^3 TWA: 2 mg/m^3

Chemical name	Spain	Portugal	Italy	The Netherlands	Switzerland
SODIUM HYDROXIDE	STEL: 2 mg/m^3	Ceiling: 2 mg/m^3			MAK: 2 mg/m^3 KZG: 2 mg/m^3

Chemical name	Denmark	Finland	Norway	Sweden	Czech
SODIUM HYDROXIDE	Ceiling: 2 mg/m^3	Ceiling: 2 mg/m^3	Takverdi: 2 mg/m^3	NGV: 1 mg/m^3 KGV: 2 mg/m^3	PEL: 1mg/m^3 NPK-P: 2mg/m^3

Chemical name	Poland	Ireland
SODIUM HYDROXIDE	NDSCh: 1 mg/m^3 NDS: 0.5 mg/m^3	STEL: 2 mg/m^3

DNEL (Derived No-Effect Level)

Chemical name	EU - REACH (1907/2006 (1907/2006) - DNEL	EU - REACH (1907/2006 (1907/2006) - DNEL	EU - REACH (1907/2006) - DNEL	EU - REACH (1907/2006 (1907/2006) - DNEL
SODIUM HYDROXIDE	workers general population	inhalation inhalation	long term exposure - local effects long term exposure - local effects	1 mg/m^3 1 mg/m^3
ALKYLPOLYGLYCOSIDE C8-10	general population general population workers general population workers	oral inhalation inhalation dermal dermal	long term exposure - systemic effects long term exposure - systemic effects long term exposure - systemic effects long term exposure - systemic effects long term exposure - systemic effects	35.7 mg/kg bw/day 124 mg/m^3 420 mg/m^3 357000 mg/kg bw/day 595000 mg/kg bw/day

PNEC (Predicted No-Effect Concentration)

Chemical name	EU - REACH (1907/2006) - PNEC	EU - REACH (1907/2006) - PNEC
ALKYLPOLYGLYCOSIDE C8-10	freshwater	0.176 mg/L

	marine water	0.0176 mg/L
	freshwater (intermittent releases)	0.27 mg/L
	food chain	111.11 mg/kg food
	sediment (freshwater)	1.516 mg/kg sediment dw
	sediment (marine water)	0.152 mg/kg sediment dw
	sewage treatment	560 mg/L
	soil	0.654 mg/kg soil dw

8.2. Exposure controls

Control parameters

Provide an eyewash station. Provide washing facilities.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Use personal protection equipment as per Regulation (EU) 2016/425.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Conforming to EN 143 - P2 / P3 Particle filters.

Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Short term use eg occasional contact or splash protection ;. Nitrile rubber (0.4 mm). Long term use eg continuous wear or immersion ;. Butyl rubber (0.7 mm). Fluorinated rubber. Breakthrough time of the glove material (protective index 6, breakthrough time: >480 min). For break through times, refer to glove manufacturer's recommendations.

Skin Protection

Body protection must be chosen based on activity and possible exposure, e.g. footwear (solid shoes, rubber boots), rubber apron, long-sleeved work clothing, impervious suit.

Eye Protection

Tightly fitting safety goggles. Approved to EN 166. For large volumes, faceshields should be used.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Information below relates to typical values and does not constitute a specification.

Appearance	Red
Odour	Slight
Physical state	Liquid
pH	13
Flash Point	Not relevant
Specific gravity	1.18
Viscosity	No data available
Solubility	Soluble in water
Autoignition Temperature	No information available
Boiling Point/Range	100 °C
Melting Point/Range	-5 °C
Flammability Limits in Air %	No information available
Evaporation Rate	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Explosive properties	No information available
Oxidising Properties	No information available
VOC content	0 %

9.2. Other information

No other information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Not considered as highly reactive. See further information below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

10.4. Conditions to avoid

No conditions to be specially mentioned.

10.5. Incompatible materials

Strong acids. Oxidising agents. Reducing agents.

10.6. Hazardous decomposition products

None under normal storage conditions and use.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

The product itself has not been tested.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM HYDROXIDE	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	
ALKYLPOLYGLYCOSIDE C8-10		> 2000 mg/kg (Rabbit)	

Sensitisation

No information available.

Skin contact

Corrosive, Causes burns and possible deep ulcerations or scarring.

Inhalation

Inhalation may result in irritation or burns to the respiratory tract.

Ingestion

Ingestion may result in severe burns to the mouth, throat and digestive tract.

Eye contact

Corrosive. Causes burns and may lead to corneal damage and possible blindness.

Chronic Toxicity

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

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

STOT - single exposure

Based on available data, the classification criteria are not met

STOT - repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

11.2 Information on Other Hazards

The product does not contain substances that have been identified as an endocrine disruptor

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Product Information

The product itself has not been tested.

Ecotoxicity effects

pH values above 10.5 may be fatal to fish and other aquatic organisms.

Chemical name	Toxicity to Fish	Crustacea	Toxicity to Algae
SODIUM HYDROXIDE	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h		
ALKYLPOLYGLYCOSIDE C8-10	LC50 = 170 mg/L Danio rerio 96 h		

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. 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 information available.

12.4. Mobility in soil

Soluble in water.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6 Endocrine disrupting properties

The product does not contain substances that have been identified as an endocrine disruptor

12.7 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste from Residues / Unused Products
Dispose of in accordance with local regulations.
Contaminated Packaging
Empty containers should be taken for local recycling, recovery or waste disposal. Empty remaining contents. Prevent product from entering drains. Recycle according to official regulations.
EWC waste disposal No
The following EWC/ AVV waste codes may be applicable:
06 02 04* Sodium and Potassium hydroxide
07 06 01* aqueous washing liquids and mother liquors
Other Information
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

SECTION 14. TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4.

UN number or ID number	UN1824
Proper Shipping Name	Sodium hydroxide solution
Transport hazard class(es)	8
Packing group	II
EmS-No	F-A, S-B

ADR / RID

UN number or ID number	UN1824
Transport hazard class(es)	8
Packing group	II
Classification code	C5
Limited Quantity	1 L
Transport Cat. (Tunnel Restriction Code)	2 (E)

IATA/ICAO

UN number or ID number	UN1824
Proper Shipping Name	Sodium hydroxide solution
Transport hazard class(es)	8
Packing group	II
ERG Code	8L
Shipping Description	UN1824, Sodium hydroxide solution, 8, PG II

14.5. Environmental hazards
The mixture is not environmentally hazardous for transport
14.6. Special precautions for user
No special precautions.
14.7 Maritime transport in bulk according to IMO instruments
Packaged product, not typically transported in IBC's
Additional information
Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.
This is a detergent product and complies with the Detergent Regulation (EC) No.648/2004.
Other regulatory information
UK - The Control of Poisons and Explosives Precursors Regulations 2023. This product contains a Poisonous substance that is on the Reportable substance list in the UK. Acquisition, introduction, possession or use of this product by the general public is restricted. All suspicious transactions, and significant disappearances and thefts should be reported. Please see details https://www.gov.uk/government/publications/supplying-explosives-precursors/supplying-explosives-precursors-and-poison.
Labelling for contents (REGULATION (EC) No 648/2004 - 907/2006):
< 5% non-ionic surfactants,

15.2. Chemical safety assessment
No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3
H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage. H290 - May be corrosive to metals.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Calculation method. H314 - Causes severe skin burns and eye damage.
Prepared By Austen Pimm
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Revision summary
CLP update. SDS sections updated 2 16 15 8

Abbreviations
REACH: Registration Evaluation Authorisation Restriction of Chemicals
EU: European Union
EC: European community
EEC: European Economic Community
UN: United Nations
CAS: Chemical Abstracts Service
PBT: Persistent Bioaccumulative Toxic
vPvB: very Persistent very Bioaccumulative
LC50: Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
LogPow: LogP octanol/water
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)
WGK: Wassergefahrdungsklasse (Water Hazard Class - Germany).
AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
RID: Reglement international concernant le transport des merchandises dangereuses par chemin der fer (Regulations concerning the International carriage of Dangerous goods by rail)
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
ERG: Emergency Response Guidebook
IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances
GHS: Globally Harmonised System of classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Chemical
w/w: weight for weight
DMSO: Dimethyl sulphoxide
OECD: Organization for Economic Cooperation and Development
STEL: Short Term Exposure Limit
TWA: Time Weighted Average

Further Information
Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature literature sources e.g. IUCLID / RTECS
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet