



Product Information Sheet

DISHI

MACHINE DISHWASH DETERGENT

Removes soilage and food deposits

Economical in use

Anti-corrosive - protects your machine

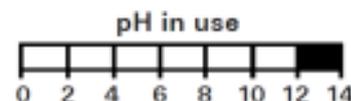


A machine dishwash detergent that removes soiling and food deposits.

USES

Dishi is a clear liquid with a high sequestrant content, which allows it to be used effectively in both soft and hard water areas. An anti-corrosive agent has been added to the formula to protect the machine.

Designed for washing cutlery, crockery, stainless steel and utensils. Suitable for all automatic dishwashing machines in cafés, restaurants, hotel kitchens, canteens, etc. Can be used as an effective detergent for tray washing machines in the food industry.



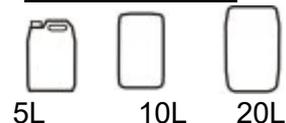
DIRECTIONS

Put dosing tube into the container of Dishi, so that it reaches the bottom. The dosing unit, which has been pre-set to a specific concentration, will automatically dispense Dishi into the machine.

N.B. DO NOT use on aluminium, zinc, magnesium and their alloys.



Available Sizes



DISHI : WATER

Soft Water Areas 1-4mls per litre of water	Hard Water Areas: 4-8mls per litre of water
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SAFETY DATA SHEET

DISHI

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

1.1. Product identifier

Product form : Mixture
Product name : DISHI
Product code : 314
Type of product : Detergent
Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Machine dishwashing detergent
Industrial/Professional use spec : Industrial. For professional use only
Use of the substance/mixture : Cleaning/washing agents and additives
Machine dishwashing detergent

1.2.2. Uses advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

Hugh Crane Cleaning Equipment Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Tel 01493 750072 Fax 01493 751854

1.4. Emergency telephone number

Country	Official Advisory Body	Address	Emergency Telephone
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road, Birmingham, B18 7QH	0344 892 0111
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road Dublin 9	00 353 1 809 2533 Healthcare professionals 24/7) 00 353 1 809 2166 (public, 0800-2200 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1A H314

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

CLP Signal word : Danger

Hazardous ingredients : Sodium hydroxide

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P260 - Do not breathe dust, fume, gas, mist, vapours, spray.

P280 - Wear eye protection, protective gloves.

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.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hydroxide	(CAS-no) 1310-73-2 (Einecs nr) 215-185-5 (EG annex nr) 011-002-00-6 (REACH-no) 01-2119457892-27	10 – 30	Skin Corr. 1A, H314 Eye Dam. 1, H318 Met. Corr. 1, H290

Specific concentration limits

Name	Product identifier	Specific concentration limits
Sodium hydroxide	(CAS-no) 1310-73-2 (Einecs nr) 215-185-5 (EG annex nr) 011-002-00-6 (REACH-no) 01-2119457892-27	(0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Acute effects skin : Causes severe burns. irritation (itching, redness, blistering).

Acute effects eyes : Risk of serious damage to eyes. Causes serious eye burns.

Acute effects oral route : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed : No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : fume. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.



- 6.2. Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- 6.3. Methods and material for containment and cleaning up**
- Methods for cleaning up** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- 6.4. Reference to other sections** : See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed** : Avoid all unnecessary exposure.
- Precautions for safe handling** : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions** : Keep only in original container. Keep container tightly closed. Keep cool.
- Incompatible products** : Strong acids.
- Incompatible materials** : Direct sunlight.
- Packaging materials** : polyethylene.
- 7.3. Specific end use(s)** : No additional information available

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

Sodium hydroxide (1310-73-2)	
Ireland - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL (15 min ref) (mg/m ³)	2 mg/m ³
Regulatory reference	Chemical Agents Code of Practice 2020
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (mg/m ³)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

- Personal protective equipment** : Gloves. Protective clothing. Protective goggles. Avoid all unnecessary exposure.
- Hand protection** : Wear protective gloves.
- Eye protection** : safety glasses. Chemical goggles or safety glasses

Personal protective equipment symbol(s):



Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state** : Liquid
- Physical state/form** : Liquid.
- Colour** : Yellow.
- Odour** : Characteristic.
- Odour threshold** : No data available
- pH** : 13.5
- Relative evaporation rate (butylacetate=1)** : No data available
- Melting point/range** : 0 °C
- Freezing point** : No data available
- Boiling point/Boiling range** : 100 °C



Flash point : No data available
Autoignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Non flammable.
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 1.156
Solubility : Soluble in water.
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

VOC content : 0 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity : Stable under normal conditions.
10.2. Chemical stability : Stable under normal conditions.
10.3. Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid : Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials : Strong acids. aluminium. zinc.
10.6. Hazardous decomposition products fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Sodium hydroxide (1310-73-2)

ATE CLP (oral)	2000 mg/kg bodyweight
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Skin corrosion/irritation : Causes severe skin burns.
pH: 13.5
Serious eye damage/irritation : Assumed to cause serious eye damage
pH: 13.5
Respiratory or skin sensitisation : Not classified
Additional information : Based on available data, the classification criteria are not met
Germ cell mutagenicity : Not classified
Additional information : Based on available data, the classification criteria are not met
Carcinogenicity : Not classified
Additional information : Based on available data, the classification criteria are not met
Reproductive toxicity : Not classified
Additional information : Based on available data, the classification criteria are not met
STOT-single exposure : Not classified
Additional information : Based on available data, the classification criteria are not met
STOT-repeated exposure : Not classified
Additional information : Based on available data, the classification criteria are not met



Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Sodium hydroxide (1310-73-2)	
LC50 fish 1	> 35 mg/l
EC50 Daphnia 1	40.4 mg/l (Ceriodaphnia)
EC50 other aquatic organisms 1	> 33 mg/l waterflea

12.2. Persistence and degradability

DISHI	
Persistence and degradability	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. 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. Not established.

Sodium hydroxide (1310-73-2)	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

DISHI	
Bioaccumulative potential	No bioaccumulation.

Sodium hydroxide (1310-73-2)	
Log Pow	-3.88
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil : No additional information available

12.5. Results of PBT and vPvB assessment

DISHI	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Waste / unused products : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

	ADR	IMDG	IATA
14.1. UN number	UN 1760	UN 1760	UN 1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	Corrosive liquid, n.o.s.
	ADR	IMDG	IATA



	ADR	IMDG	IATA
Transport Document Description	UN 1760 CORROSIVE LIQUID, N.O.S. (Sodium hydroxide 12%), 8, II, (E)	UN 1760 CORROSIVE LIQUID, N.O.S. (Sodium hydroxide 12%), 8, II	UN 1760 Corrosive liquid, n.o.s. (Sodium hydroxide 12%), 8, II
14.3. Transport hazard class(es)	8 	8 	8 
14.4. Packing group	II	II	II
14.5. Environmental hazards	Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C9
Special provisions (ADR) : 274
Limited quantities (ADR) : 1I
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T11
Portable tank and bulk container special provisions (ADR) : TP2, TP27
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel code : E
EAC code : 2X
APP code : B
Transport by sea
Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Air transport
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3, A803

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.



Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 0 g/l
15.1.2. National regulations : No additional information available
15.2. Chemical safety assessment : No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

SDS Revision Date : 23rd June 2020

Other information : None.

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1A	H314	Calculation method
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SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

End of Safety Data Sheet.