

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 04/03/2019 Version: 10.3

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SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: MD1
Product code	: J010
Type of product	: Detergent
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: Machine dishwashing products
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safe	ety data sheet
SELDEN RESEARCH LIMITED	STADEN LANE, BUXTON, DERBYSHIRE, SK17 9RZ, UNITED KINGDOM Tel: 01298 26226 Fax: 01298 26540 Email: safety@selden.co.uk
1.4. Emergency telephone number	
Emergency number	Mon to Fri 8.30am to 5.00pm - 01298 26226
SECTION 2: Hazards identificatio 2.1. Classification of the substance of	
Classification according to Regulation (E Skin corrosion/irritation, Category 1B	C) No. 1272/2008 [CLP] H314
Full text of 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 Hazard pictograms (CLP)	5. 1272/2008 [CLP]
	GHS05
Signal word (CLP)	: Danger
Hazardous ingredients	: sodium hydroxide; caustic soda
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	 P264 - Wash hands thoroughly after handling. 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/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. P405 - Store locked up.
2.3. Other hazards	
No additional information available	

SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	1 - 5	Skin Corr. 1A, H314
N,N-dimethyldecylamine N-oxide	(CAS-No.) 2605-79-0 (EC-No.) 220-020-5	0.1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of water/ Take off immediately all contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get medical advice/attention.
4.2. Most important symptoms and effects,	
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Burns.
4.3. Indication of any immediate medical at	tention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam.
5.2. Special hazards arising from the substa	ance or mixture
Hazardous decomposition products in case of fire	: Corrosive vapours.
5.3. Advice for firefighters	
No additional information available	

es nent and emergency procedures
: Evacuate unnecessary personnel.
: Use personal protective equipment as required.
nd cleaning up
: Collect spillage.
: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storag	e	
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid contact with skin and eyes.	
Hygiene measures	: Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storage, incl	uding any incompatibilities	
Technical measures	: Does not require any specific or particular technical measures.	
Storage conditions	: Keep container closed when not in use.	
Incompatible products	: Oxidizing agent. Strong acids.	
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Incompatible materials

Special rules on packaging

: Keep only in original container.

: Metals.

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

SECTION 8: Exposure controls/personal protection			
-	8.1. Control parameters		
sodium hydroxide; causti	c soda (1310-73-2)		
United Kingdom	Local name	Sodium hydroxide	
United Kingdom	WEL STEL (mg/m³)	2 mg/m³	
8.2. Exposure controls	8.2. Exposure controls		
Materials for protective cloth	ing:		
Not required for normal conditions of use			
Hand protection:			
Chemical resistant gloves (according to European standard EN 374 or equivalent). Nitrile rubber gloves			
Eye protection:			
Safety glasses. EN 166			
Skin and body protection:			
Not required for normal conditions of use			
Respiratory protection:			
Not required for normal conditions of use			
Personal protective equipment symbol(s):			



SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and che	
Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: odourless.
Odour threshold	: No data available
рН	: 13
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: >= 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.08
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

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Explosive limits	: No data available	
9.2. Other information		

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
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
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 13
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
	pH: 13
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Acute aquatic toxicity	: Not classified
	: Not classified
sodium hydroxide; caustic soda (1310-73-2)	
LC50 fish 1	> 35 mg/l
EC50 other aquatic organisms 1	> 33 mg/l
EC50 other aquatic organisms 2	IC50 algea (72 h) mg/l
12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential	
sodium hydroxide; caustic soda (1310-73-2)	
Log Pow	-3.88
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB assessment No additional information available	
12.6. Other adverse effects No additional information available	

No additional information available

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SECTION 14: Transport information	
14.1. UN number	
UN-No. (ADR)	: 1824
UN-No. (IMDG)	: 1824
UN-No. (IATA)	: 1824
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IMDG)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IATA)	: Sodium hydroxide solution
Transport document description (ADR)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III
Transport document description (IATA)	: UN 1824 Sodium hydroxide solution, 8, III
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8
IMDG	
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8

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Transport hazard class(es) (IATA) Hazard labels (IATA)

: 8 : 8



14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: C5
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1

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Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	80 1824
Tunnel restriction code (ADR)	: E
EAC code	: 2R
Transport by sea	
Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 8L
14.7. Transport in bulk according to Annex IBC code	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

Detergent Regulation : Labelling of contents:	
Component	%
non-ionic surfactants	<5%
Directive 2012/18/EU (SEVESO III)	·

15.1.2. National regulations

United Kingdom

British National Regulations	: Commission Regulation (EU) No. 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals.
	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. Detergent Regulation (648/2004/EC).

15.2. Chemical safety assessment No additional information available

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SECTION 16: Other information

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

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

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