

# CODE: F033 Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 06/11/2023 Version: 10.45

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# **1.1. Product identifier**

Product form	: Mixture
Trade name	: MD2
UFI	: NWM3-A0X9-D00M-JHY8
Product code	: F033
Type of product	: Detergent

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

#### 1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec Use of the substance/mixture : Professional use

: For professional use only

: Machine dishwashing detergent

#### 1.2.2. Uses advised against

No additional information available

# **1.3. Details of the supplier of the safety data sheet**

#### SELDEN RESEARCH LIMITED

STADEN LANE BUXTON DERBYSHIRE SK17 9RZ UNITED KINGDOM

#### Tel: 01298 26226 Email: safety@selden.co.uk

#### SELDEN EUROPE B.V.

WATERMOLEN 13 6229 PM MAASTRICHT NEDERLAND Tel: +31 (0) 43 363 42 89 Email: sds@selden.eu

1.4. Emergency telephone number Country **Organisation/Company Address Emergency number** Comment Ireland National Poisons Information Centre PO Box 1297 +353 1 809 2566 **Beaumont Hospital** Beaumont Road (Healthcare professionals-9 Dublin 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) National Poisons Information Service 0344 892 0111 Only for healthcare United Kingdom **Dudley Road** (Birmingham Centre) B18 7QH Birmingham professionals City Hospital

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# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1, Sub-Category 1A	H314
Serious eye damage/eye irritation, Category 1	H31
Full text of H- and EUH-statements: see section 16	

#### Adverse physicochemical, human health and environmental effects

No additional information available

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS05 : Danger
Contains	: 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 or 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.
	P315 - Get immediate medical advice/attention.
	P405 - Store locked up.

# 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

# **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; caustic soda substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	5 – 10	Skin Corr. 1A, H314
N,N-dimethyldecylamine N-oxide	CAS-No.: 2605-79-0 EC-No.: 220-020-5 REACH-no: 01-2119959297- 22	0.1 – 1	Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 Acute Tox. 4 (Oral), H302

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
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	( 0.5 ≤C < 2) Skin Irrit. 2, H315 ( 0.5 ≤C < 2) Eye Irrit. 2, H319 ( 2 ≤C < 5) Skin Corr. 1B, H314 ( 5 ≤C ≤ 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	<ul> <li>Get medical advice/attention if you feel unwell.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention.</li> </ul>
First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.</li> <li>Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get medical advice/attention.</li> </ul>
4.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>May cause respiratory irritation.</li> <li>Burns.</li> <li>Causes serious eye damage.</li> <li>Burns.</li> </ul>

4.3. Indication of any immediate medical attention 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 substan	nce or mixture
Hazardous decomposition products in case of fire	: Corrosive vapours.
5.3. Advice for firefighters	

No additional information available

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	ent and emergency procedures	
6.1.1. For non-emergency personnel Emergency procedures	Evacuate unnecessary personnel.	
6.1.2. For emergency responders Protective equipment	Use personal protective equipment as required.	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment a	nd cleaning up	
For containment Methods for cleaning up	Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.	

6.4. Reference to other sections

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

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 7: Handling and stora	age	
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	<ul><li>Avoid contact with skin and eyes.</li><li>Do not eat, drink or smoke when using this product.</li></ul>	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures Storage conditions Incompatible products Incompatible materials Special rules on packaging	<ul> <li>Does not require any specific or particular technical measures.</li> <li>Keep container closed when not in use.</li> <li>Oxidizing agent. Strong acids.</li> <li>Metals.</li> <li>Keep only in original container.</li> </ul>	
7.3. Specific end use(s)		

No additional information available

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

sodium hydroxide; caustic soda (1310-73-2)		
Ireland - Occupational Exposure Limits		
Local name	Sodium hydroxide	
OEL STEL	2 mg/m³	
United Kingdom - Occupational Exposure Limits		
Local name	Sodium hydroxide	
WEL STEL (OEL STEL)	2 mg/m³	

# 8.1.2. Recommended monitoring procedures

No additional information available

# 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

# 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection: Safety glasses. ISO 16321-1

# 8.2.2.2. Skin protection

#### Skin and body protection:

Not required for normal conditions of use

# Hand protection:

Chemical resistant gloves (according to European standard ISO 374-1 or equivalent). Nitrile rubber gloves

#### Other skin protection

Materials for protective clothing: Not required for normal conditions of use

8.2.2.3. Respiratory protection

#### Respiratory protection:

Not required for normal conditions of use

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	amber.	
Appearance	: Liquid.	
Odour	: odourless.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: ≥ 100 °C	
Flammability	: Not available	
Explosive limits	: Not available	
Lower explosive limit (LEL)	: Not available	
Upper explosive limit (UEL)	: Not available	
Flash point	: Not available	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
рН	: 13	
Viscosity, kinematic	: Not available	
Solubility	: Soluble in water.	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: Not available	
Relative density	: 1.13	
Relative vapour density at 20°C	: Not available	
Particle size	: Not applicable	
Particle size distribution	: Not applicable	
Particle shape	: Not applicable	
Particle aspect ratio	: Not applicable	
Particle aggregation state	: Not applicable	
Particle agglomeration state	: Not applicable	
Particle specific surface area	: Not applicable	
Particle dustiness	: Not applicable	

# 9.2. Other information

9.2.1. Information with regard to physical hazard classes

#### No additional information available

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#### 9.2.2. Other safety characteristics

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 of use.

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. Acids.

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 hazard classes	as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns.
	pH: 13
Serious eye damage/irritation	: Causes serious eye damage.
	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

#### 11.2. Information on other hazards

No additional information available

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

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

sodium hydroxide; caustic soda (1310-73-2)	
LC50 - Fish [1]	> 35 mg/l
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea
N,N-dimethyldecylamine N-oxide (2605-79-0)	
LC50 - Fish [1]	> 10 mg/l
EC50 - Other aquatic organisms [1]	4.4 mg/l waterflea
EC50 - Other aquatic organisms [2]	0.11 mg/l
	-

# 12.2. Persistence and degradability

# No additional information available

12.3. Bioaccumulative potential		
sodium hydroxide; caustic soda (1310-73-2)		
Partition coefficient n-octanol/water (Log Pow) -3.88		
N,N-dimethyldecylamine N-oxide (2605-79-0)		
Partition coefficient n-octanol/water (Log Pow)	3.69	

# 12.4. Mobility in soil

No additional information available

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

No additional information available

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

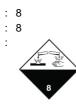
14.1. UN number or ID number		
UN-No. (ADR)	: UN 1824	
UN-No. (IMDG)	: UN 1824	
UN-No. (IATA)	: UN 1824	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: SODIUM HYDROXIDE SOLUTION	
Proper Shipping Name (IMDG)	: SODIUM HYDROXIDE SOLUTION	
Proper Shipping Name (IATA)	: Sodium hydroxide solution	
Transport document description (ADR)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	
Transport document description (IMDG)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	
Transport document description (IATA)	: UN 1824 Sodium hydroxide solution, 8, II	
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# 14.3. Transport hazard class(es)

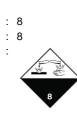
ADR

Transport hazard class(es) (ADR) Danger labels (ADR)



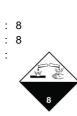
IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



# ΙΑΤΑ

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



: E : 2R

14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA)	: H : H : H
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	<ul> <li>No</li> <li>No</li> <li>No supplementary information available</li> </ul>
14.6. Special precautions for user	
Overland transport Classification code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Hazard identification number (Kemler No.) Orange plates	$ \begin{array}{c} : C5 \\ : 11 \\ : E2 \\ : P001, IBC02 \\ : MP15 \\ : T7 \\ : TP2 \\ \end{array} \\ \begin{array}{c} : L4BN \\ : AT \\ : 2 \\ : 80 \\ \hline \hline 80 \\ \hline 1824 \end{array} $

Tunnel restriction code (ADR)	
EAC code	

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### Transport by sea

Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T7
Tank special provisions (IMDG)	:	TP2
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	А
Air transport		
PCA Excepted quantities (IATA)	:	E2
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
ERG code (IATA)	:	8L

#### 14.7. Maritime transport in bulk according to IMO instruments

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 substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

De	Detergent Regulation (648/2004/EC): Labelling of contents:	
Co	mponent	%
nor	n-ionic surfactants	<5%

#### 15.1.2. National regulations

#### **United Kingdom**

**British National Regulations** 

 Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
 Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
 Detergent Regulation (648/2004/EC).

#### 15.2. Chemical safety assessment

#### No additional information available

SECTION 16: Other information		
Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
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Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
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.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	
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	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method

Safety Data Sheet (SDS), EU

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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