

# 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

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1.4. Emergency telephone number

SECTION 2: Hazards identification
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#### 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	H318
Full text of H statements : see section 16	

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

No additional information available

Lab	elling accor	ding to Regulation (EC) No. 1272/2008 [C	LP]

Hazard pictograms (CLP)



Signal word (CLP) Contains Hazard statements (CLP)

: Danger

: sodium hydroxide; caustic soda

: H314 - Causes severe skin burns and eye damage.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP)	<ul> <li>P264 - Wash hands thoroughly after handling.</li> <li>P280 - Wear eye protection, protective gloves.</li> <li>P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P315 - Get immediate medical advice/attention.</li> <li>P405 - Store locked up.</li> </ul>
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# 2.3. Other hazards

No additional information available

# 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	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

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-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 skin with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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, both acute and delayed			
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 attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting meas	ires
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam.
5.2. Special hazards arising from	he substance or mixture
Hazardous decomposition products in ca	se of fire : Corrosive vapours.
5.3. Advice for firefighters	

No additional information available

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

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

SECTION 7: Handling and storage		
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, in	cluding 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

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#### **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/m <sup>3</sup>	
United Kingdom - Occupational Exposure Limits		
Local name	Sodium hydroxide	
WEL STEL (OEL STEL)	2 mg/m <sup>3</sup>	

### 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. EN 166	
L	

### 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 EN 374 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

<b>SECTION 9: Ph</b>	ysical and chemical	properties
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### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: amber.
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	: 1.13
Solubility	: Soluble in water.
Partition coefficient n-octanol/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
Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties	<ul> <li>No data available</li> </ul>

#### 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 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.

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# 10.6. Hazardous decomposition products

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

SECTION 11: Toxicological info	mation
11.1 Information on toxicological ef	fects
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

SECTION 12: Ecological information		
12.1. Toxicity		
(acute)	Not classified	
sodium hydroxide; caustic soda (1310-73-2)		
LC50 - Fish [1]	> 35 mg/l	
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea	
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		
12.5. Results of PBT and vPvB assessment		
No additional information available		
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# 12.6. 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 UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA)	: UN 1824 : UN 1824 : UN 1824	
14.2. UN proper shipping name		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA)	<ul> <li>SODIUM HYDROXIDE SOLUTION</li> <li>SODIUM HYDROXIDE SOLUTION</li> <li>Sodium hydroxide solution</li> <li>UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)</li> <li>UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II</li> <li>UN 1824 Sodium hydroxide solution, 8, II</li> </ul>	
14.3. Transport hazard class(es)		
ADR Transport hazard class(es) (ADR) Danger labels (ADR)		
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)		
IATA Transport hazard class(es) (IATA) Danger labels (IATA)		
14.4. Packing group		
Packing group (ADR)	: 11	
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MD2		F033
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with	its amendment Regulation (EU) 2015/830	
Packing group (IMDG) Packing group (IATA)	: II : II	
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)	: 11	
Excepted quantities (ADR)	: E2	
Packing instructions (ADR)	: P001, IBC02	
Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR)	: MP15 : T7	
Portable tank and bulk container instructions (ADK)	: TP2	
(ADR)	. 112	
Tank code (ADR)	: L4BN	
Vehicle for tank carriage	: AT	
Transport category (ADR)	: 2	
Hazard identification number (Kemler No.)	: 80	
Orange plates	80 1824	
Tunnel restriction code (ADR)	: E	
EAC code	: 2R	
Transport by sea		
Limited quantities (IMDG)	: 1L	
Excepted quantities (IMDG)	: E2	
Packing instructions (IMDG)	: P001	
IBC packing instructions (IMDG)	: IBC02	
Tank instructions (IMDG)	: T7 : TP2	
Tank special provisions (IMDG) EmS-No. (Fire)	: TP2 : F-A	
EmS-No. (Spillage)	: S-B	
Stowage category (IMDG)	: A	
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. Transport in bulk according to Annex II of Marpol and the IBC Code

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 3

# MD2

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Detergent Regulation (648/2004/EC): Labelling of contents:	
Component	%
non-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: Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard, Category 1 Eye Dam. 1 Serious eye damage/eye irritation, Category 1 Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 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 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.

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.