



MDM s.r.l.

Revision no. 0

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Safety Data Sheet

SECTION 1. Identification of the substance/mixture and the company/undertaking

1.1. Product identifier

Code: M2
Name: M2

1.2. Relevant identified uses of the substance or mixture and uses advised against
Description/ use: DETERGENT

1.3. Details of the supplier of the safety data sheet

Name: MDM s.r.l.
Address: via Prima strada 9
Town/ city and nation: 35026 Conselve (PD)
ITALY
tel. 049 5310317
fax 049 9599029

1.4. Emergency telephone number: 049 5310317 Mon - Fri 9.00 a.m. – 6.00 p.m.
For urgent information contact: E-mail: info@emmediemme.biz
POISONS CENTRE: see point 16 of this data sheet

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments). It therefore requires a data sheet that complies with the provisions set forth in (EC) Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and the environment are provided in sections 11 and 12 of this data sheet.

2.1.1. Regulation 1272/2008 (CLP) and subsequent amendments.

Hazard classification and indications:

Eye Dam. 1 H318

2.1.2. Directive 67/548/EEC and 1999/45/EC and subsequent amendments.

Hazard symbols: Xi

R phrases: 41

The full wording of the risk (R) phrases and hazard (H) statements is provided in section 16 of this data sheet.

2.2. Label elements.

Hazard labelling pursuant to (EC) Regulation 1272/2008 (CLP) and subsequent amendments.



Warnings:
H318 Danger
Causes serious eye injuries.

P102 Keep out of the reach of children.
P264 Wash hands thoroughly after handling.

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P280 Wear protective gloves / protective clothing / eye protection / face protection.
P302+P352 CONTACT WITH THE SKIN (or hair): wash with plenty of soap and water.
P305+351+338 CONTACT WITH THE EYES: Rinse the eyes thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P310 Immediately call a POISON CENTRE or a doctor.

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.**3.2. Mixtures.**

Contains:

Identification	Conc. %.	Classification under 67/548/EEC.		Classification under 1272/2008 (CLP).	
BUTYL DIGLYCOL CAS No. 112-34-5 EINECS No. 203-961-6 Index No. 603-096-00-8 Reach No. 01-2119475104-44	15 ≤ C < 30	Xi	R36	Eye Irrit. 2	H319
POLYETHOXYLATED C11-13 ALCOHOL CAS No. 68439-54-3 EINECS No. N/A because it is a polymer REACH No. 01-2119980051-45	10 ≤ C < 15	Xn	R22 R41	Acute Tox. 4 Eye Dam. 1	H302 H318
PARAFFIN OILS, SAPONIFIED, SULFOCHLORINATED CAS No. 68188-18-1 EINECS No. 269-144-1 REACH No: 01-2119517577-32	5 ≤ C < 10	Xn Xi	R22 R36/38	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Aquatic Chronic 3	H302 H315 H319 H412
ALKYL DIMETHYL BETAINE CAS No. 66455-29-6 EINECS No. 266-368-1	1 ≤ C < 5	Xi	R 36/38	Eye Irrit. 2 Skin Irrit. 2	H319 H315
2-PROPANOL CAS No. 67-63-0 EINECS No. 200-661-7 Index No. 603-117-00-0 REACH No. 01-2119457558-25	1 ≤ C < 5	F Xi	R11 R36 R67	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
EDTA tetrasodium salt CAS No. 64-02-8 EINECS No. 200-573-9 REACH No. 01-21194-86762-27	1 ≤ C < 5	Xi	R20 R22 R41	Acute tox 4 Acute tox 4 Eye Dam. 1	H332 H302 H318

The full wording of the risk (R) phrases and hazard (H) statements is provided in section 16 of this data sheet.

SECTION 4. First aid measures.**4.1. Description of first aid measures.**

No special measures required. However, rules of good industrial hygiene should be observed.

EYES: wash immediately and thoroughly with water for at least 15 minutes. Seek medical advice.

SKIN: wash with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice. Wash contaminated clothing before reuse.

INHALATION: take the subject out into the open air. If breathing is hampered, consult a doctor.

INGESTION: consult a doctor. Induce vomiting only if instructed to do so by a doctor. Do not administer anything by mouth if the subject is unconscious and unless authorised to do so by a doctor.

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

There are no known episodes of damage to health that can be attributed to the product.

For the symptoms and affects caused by the substances contained in the product see section 11.



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

SECTION 5. Firefighting measures.

The product is neither flammable nor combustible. In the event of a fire use extinguishing media suited to the surrounding environment

5.1. Extinguishing media:

SUITABLE EXTINGUISHING MEDIA

The extinguishing media to be used is the conventional kind: carbon dioxide, foam, powder and nebulised water.

UNSUITABLE EXTINGUISHING MEDIA

None in particular.

5.2. Special hazards arising from the substance or mixture:

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products.

5.3. Advice for fire-fighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire-prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinguishing and the remains of the fire according to applicable regulations.

EQUIPMENT

Normal fire-fighting gear, including self-contained, open-circuit, compressed-air breathing apparatus (EN 137), flameproof suit (EN 469), flameproof gloves (EN659) and firefighter boots (HO A29 or A30).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1 For non-emergency personnel:

Move away and wait until emergency personnel have made the area in which the release took place safe.

6.1.2 For emergency responders:

Wear suitable protective equipment (including personal protective equipment as indicated in section 8 of this safety data sheet) in order to avoid contaminating the skin, eyes and personal clothing. Use breathing apparatus in the presence of airborne vapours or dust. These instructions apply to both processing staff and emergency responders.

6.2. Environmental precautions.

The product must not enter the sewer system, surface water or ground water.

6.3. Methods and materials for containment and cleaning up:

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions indicated under point 13.

6.4. Reference to other sections:

Any information concerning individual protection and disposal is provided in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling:

Avoid contact with the eyes and skin. Do not inhale vapours.

Do not handle the product before consulting all the other sections of this safety data sheet. Avoid dispersion of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities.

Store the product in clearly labelled containers. Store containers away from any incompatible material, having consulted section 10.

7.3. Specific end uses.

Information not available.



SECTION 8. Exposure controls/ personal protection.

8.1. Control parameters.

Description	Type	Nation	TWA/8 h		STEL/15 min		
			mg/m ³	ppm	mg/m ³	ppm	
BUTYL DIGLYCOL	TLV-ACGIH	CH	106				skin
	OEL	EU	67.5	10	101.2	15	Skin
2-PROPANOL	TLV-ACGIH		491	200	982	400	
EDTA tetrasodium salt	DNEL		2.8				skin

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with the applicable regulations indicated below.

HAND PROTECTION

Protect hands with category III (Directive 89/686/EEC and standard EN374) PVC, neoprene, nitrile or equivalent work gloves. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. The gloves' limit depends on the duration of exposure.

EYE PROTECTION

Wear a hood visor or protective visor together with airtight goggles (see standard EN 166).

SKIN PROTECTION

Wear overalls with long sleeves and category II (see Directive 89/686/EEC and standard EN 344) professional safety footwear. Wash with soap and water after removing protective clothing.

BREATHING PROTECTION

If the threshold value (where available) of one or more of the substances present in the product is exceeded, in terms of daily exposure in the workplace or a fraction established by the company's prevention and protection service, wear a facemask with a type B or universal filter whose class (1, 2 or 3) must be chosen to suit the limit concentration for use (see Standard EN 141).

In the absence of technical measures, airway protection equipment, such as masks of the type indicated above, are required to restrict worker exposure. Facemasks only provide limited protection.

In the presence of substances considered to be odourless or whose olfactory threshold exceeds the applicable exposure level and in the case of an emergency, in other words when the exposure levels are unknown or the concentration of oxygen in the workplace is lower than 17% in volume, wear self-contained, open-circuit, compressed-air breathing apparatus (see standard EN 137) or fresh air hose breathing apparatus for use with a full facemask, half mask or mouthpiece assembly (see standard EN 138).

An emergency eye washing and shower system must be provided.

ENVIRONMENTAL EXPOSURE CONTROLS.

Check emissions from productive processes, including those from ventilation equipment, to make sure that they meet environmental protection standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Physical state	viscous liquid
Colour	Colourless
Smell	Not available.
Olfactory threshold.	Not available.
pH.	9
Melting or freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 60 °C.
Evaporation rate	Not available.
Lower flammability limit.	Not flammable.
Upper flammability limit.	Not flammable
Lower explosive limit.	Not explosive



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Upper explosive limit.	Not explosive
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1.030 Kg/l
Solubility	Not available.
Partition coefficient: n-octanol/water:	Not available.
Autoignition point.	Not available.
Decomposition temperature.	Not available.
Viscosity	>20.4 mm ² /sec.
Explosive properties	Not explosive.
Oxidising properties	Non-oxidant.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular hazards of reaction with other substances in normal conditions of use. Avoid contact with strong oxidising agents

10.2. Chemical stability.

The product is stable in normal use and storage conditions.

10.3. Possibility of hazardous reactions.

No hazardous reactions are expected in normal use and storage conditions.

10.4. Conditions to avoid.

None in particular. Apply the usual caution required for chemical products.

10.5. Incompatible materials.

Strong oxidising agents.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of toxicological data obtained from experiments using the substance in question, any hazards the product poses for health have been evaluated according to the substances it contains, according to the criteria set forth in applicable classification standards. Therefore, consider the concentrations of the individual hazardous substances indicated in section 3, in order to evaluate the toxicological effects deriving from exposure to the product.

The product causes serious eye injuries and can cause corneal opacity, iris damage and irreversible discolouration of the eye.

Acute effects: contact with skin causes irritation with erythema, oedema, dryness and cracking. Inhaling vapours can cause moderate irritation of the upper airways. Swallowing may cause health problems, including abdominal pain with burning, nausea and vomiting.

a) acute toxicity;

Information on hazardous ingredients:

2-PROPANOL: oral LD50 (mg/kg) 12800 (in rats); dermal LD50 (mg/kg) 12800 (in rats); inhalation LC50 (in rats) 72.6 mg/l/4h

EDTA: oral LD50 (mg/kg) 1780

Inhalation LOEC 30 mg/m³

BUTYL DIGLYCOL

Acute toxicity

Slightly toxic after single ingestion. Slightly toxic in contact with skin.

Inhalation of a highly saturated vapour-air mixture does not present an acute risk.

Experimental/ calculated data:

DL50 in mice (oral): 2,410 mg/kg (other)

Other in rats (inhalatory): > 29 ppm 2 h (IRT)

DL50 in rabbits (dermal): 2,764 mg/kg

b) Irritation: the product causes skin irritation and serious eye damage.

c) Corrosion: the product is not corrosive

d) Sensitisation: the product is not sensitising

e) repeat dose toxicity: data not available



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- f) carcinogenicity: the product is not carcinogenic.
IARC: No ingredient of this product present at concentrations of 0.1% or higher has been identified as a known or IARC-recognised carcinogenic.
- g) Germ cell mutagenicity: the product is not mutagenic
- h) reproductive toxicity: the product is not toxic for the reproductive system

SECTION 12. Ecological information.

Use in compliance with good manufacturing practice, avoiding dispersion of the product into the environment. Inform the competent authorities if the product enters waterways or the sewer system or if it contaminates soil or vegetation.

12.1. Toxicity.

The product is not hazardous for the environment

BUTYL DIGLYCOL

LC50 (96 h) 1,300 mg/l, *Lepomis macrochirus* (static)

EC50 (48 h) > 100 mg/l, *Daphnia magna* (Directive 92/69/EEC, C.2, static)

2-PROPANOL

LC50 (96h): 100 mg/l Fish

IC50 (72h): 100 mg/l *Scenedesmus subspicatus*

EC50 (48h): 100 mg/l *Daphnia magna*

EDTA

EC50 (48h): 140 mg/l DAPHNIA

EC50 (mg/l): 2040 mg/l Fish (Na2EDTA)

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulation potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain PBT or vPvB substances in percentages of over 0.1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. As is product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Dispersion of the product on soil and in the sewer system or waterways must be avoided at all costs.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

The product should not be considered hazardous in compliance with applicable regulations concerning the transport of hazardous goods by road (A.D.R.), rail (RID), sea (IMDG Code) and air (IATA).

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture.

Substances on the Candidate List (Article 59, REACH). None.

Substances subject to authorisation (Annex XIV, REACH). None.



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Substances subject to exportation notification obligations (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Hygiene controls Workers exposed to this chemical agent that is hazardous for health must undergo health vigilance performed pursuant to the provisions set forth in article 41 of Legislative Decree 81 of 9 April 2008 unless the risk for workers' health and safety has been evaluated as negligible pursuant to article 224, subsection 2.

15.2. Chemical safety assessment.

For this mixture a chemical safety assessment is not required.

SECTION 16. Other information.

Wording of the hazard (H) statements indicated in sections 2 and 3 of the data sheet:

Acute Tox. 4	Acute toxicity Hazard category 4
Aquatic Chronic 2	Hazardous for the aquatic environment – chronic hazard, category 2
Eye Dam. 1	Serious eye damage/irritation Hazard category 1
Eye Irrit. 2	Serious eye damage/irritation Hazard category 2
Flam. Liq. 2	Flammable liquid Hazard category 2
Skin Irrit. 2	Skin corrosion/irritation Hazard category 2
STOT SE 3	Specific target organ toxicity – single exposure Hazard category 3
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye injuries.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Wording of the risk (R) phrases indicated in sections 2 and 3 of the data sheet:

R11	HIGHLY FLAMMABLE
R22	HARMFUL IF SWALLOWED
R36	IRRITATING FOR EYES
R41	CAUSES SERIOUS EYE DAMAGE
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS
R36/38	IRRITATING TO EYES AND SKIN

GENERAL REFERENCES:

1. Directive 1999/45/EC and subsequent amendments
2. Directive 67/548/EEC and subsequent amendments
3. (EC) Regulation 1907/2006 issued by the European Parliament (REACH)
4. (EC) Regulation 1272/2008 issued by the European Parliament (CLP)
5. (EC) Regulation 790/2009 issued by the European Parliament (I Atp. CLP)
6. (EC) Regulation 453/2010 issued by the European Parliament
7. (EC) Regulation 286/2011 issued by the European Parliament (II Atp. CLP)
8. (EC) Regulation 618/2012 issued by the European Parliament (III Atp. CLP)
9. The Merck Index. Ed. 10
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
15. ECHA Agency website
16. Safety data sheets of the ingredients

24-hour Poisons centres

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano)
Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)
Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)
Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)
Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)
Centro Antiveleni di Foggia 0881 732326 (CAV Ospedale Universitario- Foggia)



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Notes for the user:

The information contained in this sheet is based on the knowledge in our possession on the date the last version was issued. The user is responsible for making sure that this information is complete and suited to the specific use.

This document should not be considered as a guarantee of any specific property of the product.

As use of the product does not fall under our direct control, the user is under obligation to fulfil his/her legal responsibilities and comply with applicable health and safety regulations. No responsibility will be assumed in the case of improper use.

Staff must be adequately trained on how to use chemical products.

Changes introduced since the previous revision.

Not applicable. This is the first edition.