

Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

- **Product Name :** DDM

1.2 Relevant identified uses of the substances or mixture and used advised against

- **Recommended use :** Acidic cleaner for industrial dishwashers.
- **Recommended restrictions :** For industrial use only

1.3 Details of supplier of the safety data sheet

- **Manufacturer Details:** ZOHAR DALIA C.A.A. Ltd.,
Kibbutz Dalia 1923900, Israel
Tel. 972-4-9897234
Fax 972-4-9897200

1.4 Emergency Telephone

- **Emergency Telephone & Contact:** Tel: +972-4-9897515

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture according to Regulation (EC) No 1272/2008 (CLP)

Human health hazard categories and codes:

Skin Irritation	category 2
Eye irritation	category 2

2.2 Labelling:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 (CLP/GHS)

- **Hazard Pictogram :** **SIGNAL WORD: Warning**



GHS07

Exclamation mark

- **Hazard Statements :**
 - H315: Causes skin irritation.
 - H319: Causes serious eye irritation.
- **Precautionary Statements:**
 - P280: Wear protective gloves/protective clothing/eye protection/face protection.
 - P270: Do not eat, drink or smoke when using this product.
 - P302+P352: IF ON SKIN: Wash with plenty of water
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P332+P313: If skin irritation occurs: Get medical advice/attention.
 - P501: Dispose of contents/container to an approval waste disposal plant

2.3. Other hazards

Not known

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Constituent	CAS No.	EC No.	Concentration range	Classification according to Regulation (EC) No 1272/2008 (CLP)	Remarks
Sodium cumene sulphonate	28348-53-0	248-983-7	>= 5.0% - <15.0 %	Eye Irrit. 2; H319 STOT SE 3; H335	None
Ethoxylated fatty acids	Confidential	Confidential	>=5.0 % - < 15.0 %	-	None
citric acid	77-92-9	201-069-1	>1.0 %	Not Classified	None
sodium benzoate	532-32-1	208-534-8	>1.0 %	Eye Irrit. 2; H319	
water	7732-18-5	231-791-2	Up to 100%	Not Classified	None

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid measures:

- **General measures** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Eye contact** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- **Skin Contact** : Wash off immediately with plenty of water for at least 15 minutes.
Take off all contaminated clothing immediately.
Consult a physician.
- **Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Ingestion** : If swallowed, rinse mouth with water (only if the person is conscious).

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

- In all cases of doubt, or when symptoms persist, seek medical advice.

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

- Advice to physician: symptomatic treatment is advised.
- Eye rinsing device shall be made available at any point of handling of the product.

Section 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture : None

5.3. Advice for fire-fighters

- Wear self-contained breathing apparatus and protective suit.
- Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- **Personal Protective Equipment :** Evacuate personnel to safe areas.
Wear personal protective equipment.
Ventilate the area.
- **Skin Protection :** Avoid contact with skin by use of protective equipment. (as mention in section 8.2)
- **Eye Protection :** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Respiratory Protection :** Wear personal protective equipment. (as mention in section 8.2)
- **Work Practices :** Wear eye/face protection.

6.2. Environmental precautions:

- Do not let product enter drains

6.3. Methods and material for containment and cleaning:

- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Dispose contaminated material as per local regulation authority.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

- Wear personal protective equipment.
- Avoid contact with skin, eyes (tightly fitting safety goggles) and clothes.

7.2 Conditions for safe storage:

- Store in cool place.
- Keep container in a cool, well-ventilated area
- Keep container tightly closed.

7.3 Specific end use(s):

- As prescribe in section 1.2

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Not Applicable.

8.2 Exposure Control:

- | | |
|----------------------------------|---|
| • Engineering measures: | Ensure adequate ventilation, especially in confined areas. |
| • Respiratory Protection: | No personal respiratory protective equipment normally required. |
| • Hand Protection: | Wear safety gloves |
| • Eye protection: | Safety glasses with side-shields conforming to EN166
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). |
| • Skin protection: | Protective suit |
| • Protective measures : | Wear suitable gloves and eye/face protection.
Avoid contact with the skin and the eyes.
General industrial hygiene practice. |

Section 9 – PHYSICAL & CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

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|--|-------------------------------|
| • Apperance: | Green Liquid |
| • Odour: | Characteristic |
| • Odour threshold: | N.A. |
| • pH : | 4.5-5.5 |
| • Melting point/Freezing point: | -3°C |
| • Initial boiling point and boiling range: | 103 °C @760mm Hg |
| • Flash point: | Boils without flashing |
| • Evaporation rate: | N.A. |
| • Flammability(solid/gas): | N.A. |
| • Upper/lower flammability or explosive limits: | N.A. |
| • Vapour pressure: | N.A. |
| • Vapour density: | N.A. |
| • Relative density: | 1.04 g/cm3 @ 20°C |
| • Solubility(water) : | Miscible (in all proportions) |
| • Partition coefficient: n-octanol/water: | N.A. |
| • Auto-Ignition temperature: | N.A. |
| • Decomposition temperature: | N.A. |
| • Viscosity: | 15 at 25°C |
| • Explosive properties: | No |
| • Oxidizing properties: | No |

9.2 Other information: Not available

Section 10 - STABILITY AND REACTIVITY

- | | |
|--|--|
| • Reactivity : | No danger reactivity exists. |
| • Chemical stability : | Stable under recommended storage and handling conditions. |
| • Possibility of hazardous reactions : | None if stored and handled properly. |
| • Conditions to avoid : | No decomposition if used according to specifications. |
| • Hazardous decomposition products : | No decomposition product produced if used according to specifications. |
| • Incompatible materials : | Data not available. |

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- No data available

11.2 Irritation Corrosion:

- **Eye:** The product cause eye irritation
- **Skin :** The product cause skin irritation

11.3 Sensitization

- The product not sensitizing to skin.

11.4 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- | | |
|-------------------------------|-------------------------------|
| • Carcinogenicity : | Not classified as carcinogen. |
| • Mutagenic effects : | Not classified as a mutagen. |
| • Reprotoxic effects : | Not found to be reprotoxic. |

11.5 Other toxic effects on humans:

- | | |
|-----------------------------|-------------------|
| • Inhalation : | No data available |
| • Dermal : | No data available |
| • Eyes : | No data available |
| • Ingestion : | No data available |
| • Chronic toxicity : | No data available |

11.6 NIOSH Immediately Dangerous To Life or Health Concentration (IDLH):

- No information available

11.7 Specific target organ toxicity:

- | | |
|------------------------------|---|
| • Single exposure : | No experimental or epidemiological sufficient evidence for specific target organ toxicity |
| • Repeated exposure : | No experimental or epidemiological sufficient evidence for specific target organ toxicity |

Section 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- No data available

12.2 Persistence and degradability:

- No data available

12.3 Bioaccumulative potential:

- No data available

12.4 Mobility in soil:

- Data not available

12.5 Results of PBT and vPvB assessment:

- Not PBT and PVB

12.6 Other adverse effects:

- None

Section 13 - DISPOSAL CONSIDERATIONS:

- **Waste treatment methods** : Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Section 14 - TRANSPORT INFORMATION:

The product does not classified hazardous to transport as per Land transport (ADR/RID), Marine transport (IMDG), Air transport ICAO/IATA, and Department of Transportation (DOT).

- **UN Number** : Not applicable
- **UN proper shipping name** : Not regulated
- **Transport hazard class** : Not applicable. Not classified as dangerous for transport.
- **Packing group** : Not regulated
- **Environmental hazards** : Prevent disposal into the drains
- **Special precautions for user** : Not required

Section 15 - REGULATORY INFORMATION

15.1 Other regulatory information:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Control of Substances Hazardous to Health Regulations (COSHH) 2002 SI 2002/2677 and COSHH Essentials: Easy steps to control chemicals - Control of Substances Hazardous to Health Regulations HSG193.

Inventory Status:

Listed in: US(TSCA), Europe (EINECS), New Zealand (NZIoC), Philippines (PICCS), Canada(DSL), China (IECSC),Australia (AICS), Japan (ENCS).

- HMIS (Hazardous Materials Identification system) classification:

Health	1
Fire	0
Physical Hazard	0
Personal Protection	B

1 = Irritation or minor reversible injury possible.

0 = Materials that will not burn.

0= Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.

B =  Safety Glasses +  Gloves

- NFPA :(National Fire Protection Association)

Health	1
Fire	0
Reactivity	0

1 = Exposure would cause irritation with only minor residual injury

0 = Materials that will not burn under typical fire conditions

0=Normally stable, even under fire exposure conditions, and are not reactive with water.

15.2 Chemical Safety Assessment:

- A chemical safety assessment has been carried out for the substance or the mixture by the supplier (LR)- No

Section 16 – OTHER INFORMATION

16.1 Technical Advice:

- Use data given in this Safety Data Sheet and make an inventory list of all chemicals used in the factory
- Create a Register for Workplace Chemicals;
- Set priorities concerning the safety in the organization
- Create emergency plans for the assessed hazards;
- Organize occupational health care and regular surveys as necessary;
- Organize contacts with authorities/laboratories to create a monitoring system for chemical hazards, and to reliably measure and/or estimate occupational exposures to chemicals when needed;
- Start collecting case studies of accidents and sickness records in the enterprise to create a basis for priority

measures in the control of hazards;

- Involve workers in safety organizations, such as the system of Safety Representatives and Committees.
- Do regular inspection using checklists made for the particular chemicals and chemical processes in use;
- Mark and label all chemicals;
- Keep at hand an inventory list of all chemicals handled in the place of work together with a collection of Chemical Safety Data Sheets for these chemicals;
- Train workers to read and understand the Chemical Safety Information, including the health hazards and routes of exposure; train them to handle dangerous chemicals and processes with respect;
- Plan, develop and choose the safe working procedures;
- Reduce the number of people coming into contact with dangerous chemicals;
- Reduce the length of time and/or frequency of exposure of workers to dangerous chemicals;
- Train workers to know and understand the emergency procedures;
- Equip and train workers to use personal protective equipment properly after everything possible has been done to eliminate hazards by means of other methods;

16.2 List of relevant R phrases:

R36/38 - Irritating to eyes and skin.

DISCLAIMER

The information contained in this document is given in good faith and based on our current knowledge. It is only an indication and is in no way binding, notably as regards infringement of or prejudice to third parties through the use of our products.

ZOHAR DALIA GUARANTEES THAT ITS PRODUCTS COMPLY WITH ITS SALES SPECIFICATIONS.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use.

Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations.

Users are requested to check that they are in possession of the latest version of the present document and ZOHAR DALIA is at their disposal to supply any additional information.