

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

1.1. Product identifier

Product form : Mixture
Product name : MARISOL
Product code : UNIM028
Type of product : Cleaner
Product group : Blend

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : Industrial
Function or use category : Cleaning/washing agents and additives

| Title | Use descriptors |
|-------|------------------------|
| | SU3, PC35, PROC5, ERC2 |

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

UNIMARINE SERVICES INC.
60 MARKET SQUARE
PO BOX 364
BELIZE CITY
T +35725331054
info@unimarine-services.com

1.4. Emergency telephone number

Emergency number : +35725331054

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 2 H315
Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements (CLP) : P280 - Wear eye protection, protective gloves
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

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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 Directive 67/548/EEC | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------------|---|---------|--|---|
| Sodium gluconate | (CAS No) 527-07-1 (EC No) 208-407-7 | 3 - 7 | Not classified | Not classified |
| Vetalcohol C8-C10 glucoside | (CAS No) --- (EC No) 500-220-1 (REACH-no) 01-2119488530-36 | 2 - 7 | Xi; R41 | Eye Dam. 1, H318 |
| 2-(2-butoxyethoxy)ethanol | (CAS No) 112-34-5 (EC No) 203-961-6 (EC Index No) 603-096-00-8 (REACH-no) 01-2119475104-44 | 0,5 - 5 | Xi; R36 | Eye Irrit. 2, H319 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

- 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 contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/injuries after skin contact : Irritation.
- Symptoms/injuries after eye contact : Eye irritation.
- Symptoms/injuries after ingestion : Ingestion will cause irritation of the upper GI tract.

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : carbon dioxide (CO₂), foam, water spray, powder.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable.
- Hazardous decomposition products in case of fire : None under normal conditions.

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate area.
- Firefighting instructions : Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store away from freezing (avoid freezing during storage).
Incompatible products : Strong acids.
Incompatible materials : None under normal conditions.
Storage temperature : > 5 °C
Storage area : Store away from freezing (avoid freezing during storage).

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 2-(2-butoxyethoxy)ethanol (112-34-5) | | |
|--------------------------------------|---|---|
| Belgium | Local name | 2-(2-Butoxyéthoxy)éthanol |
| Belgium | Limit value (mg/m ³) | 67,5 mg/m ³ |
| Belgium | Limit value (ppm) | 10 ppm |
| Belgium | Short time value (mg/m ³) | 101,2 mg/m ³ |
| Belgium | Short time value (ppm) | 15 ppm |
| Germany | Local name | 2-(2-Butoxyethoxy)ethanol |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 67 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 10 ppm |
| Germany | Remark (TRGS 900) | EU,DFG,Y,11 |
| Italy | Local name | 2-(2-Butossietossi)etanolo |
| Italy | OEL TWA (mg/m ³) | 67,5 mg/m ³ |
| Italy | OEL TWA (ppm) | 10 ppm |
| Italy | OEL STEL (mg/m ³) | 101,2 mg/m ³ |
| Italy | OEL STEL (ppm) | 15 ppm |
| Netherlands | Local name | 2-(2-Butoxyethoxy)ethanol |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 50 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 100 mg/m ³ |
| Netherlands | Remark (MAC) | H |
| Spain | Local name | 2-(2-Butoxietoxi) etanol (Dietilenglicol monobutiléter) |
| Spain | VLA-ED (mg/m ³) | 67,5 mg/m ³ |
| Spain | VLA-ED (ppm) | 10 ppm |
| Spain | VLA-EC (mg/m ³) | 101,2 mg/m ³ |
| Spain | VLA-EC (ppm) | 15 ppm |

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| 2-(2-butoxyethoxy)ethanol (112-34-5) | | |
|--------------------------------------|-------|---|
| Spain | Notes | (2007), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido.) |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Not necessary with sufficient ventilation

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| Physical state | : Liquid |
| Appearance | : Clear. |
| Colour | : light brown. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : 11,5 - 12 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : >= |
| Relative density | : No data available |
| Density | : 1,01 - 1,11 g/m ³ |

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| | |
|----------------------|---------------------|
| 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 |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with strong acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

No additional information available

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 skin irritation. pH: 11,5 - 12 |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: 11,5 - 12 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

Vetalcohol C8-C10 glucoside (---)

| | |
|---|-----------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 1000 mg/kg bodyweight |
| 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

| | |
|--------------------------|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity | : Not classified |
| Chronic aquatic toxicity | : Not classified |

Vetalcohol C8-C10 glucoside (---)

| | |
|----------------|--------------------------------------|
| LC50 fish 1 | 100 - 126 Danio rerio - OCDE 203 |
| EC50 Daphnia 1 | > 100 mg/l Daphnia magna - OCDE 202 |
| ErC50 (algae) | 27 - 37 mg/l Desmodesmus subspicatus |

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12.2. Persistence and degradability

| MARISOL | |
|-------------------------------|--|
| Persistence and degradability | Contained surfactants are biodegradable. Product is biodegradable. |
| Biodegradation | > 90 % |

12.3. Bioaccumulative potential

| Vetalcohol C8-C10 glucoside (→) | |
|---------------------------------|--------|
| Log Pow | < 1,77 |

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable
 UN-No. (IMDG) : Not applicable
 UN-No. (IATA) : Not applicable
 UN-No. (ADN) : Not applicable
 UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
 Proper Shipping Name (IMDG) : Not applicable
 Proper Shipping Name (IATA) : Not applicable
 Proper Shipping Name (ADN) : Not applicable
 Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
 Packing group (IMDG) : Not applicable
 Packing group (IATA) : Not applicable
 Packing group (ADN) : Not applicable
 Packing group (RID) : Not applicable

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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

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| | |
|---------------------------------------|---------------------------|
| 55. 2-(2-butoxyethoxy)ethanol (DEGBE) | 2-(2-butoxyethoxy)ethanol |
|---------------------------------------|---------------------------|

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

| | |
|--------------|---|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| R36 | Irritating to eyes |

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| | |
|-------|--|
| R41 | Risk of serious damage to eyes |
| Xi | Irritant |
| ERC2 | Formulation of preparations |
| PC35 | Washing and cleaning products (including solvent based products) |
| PROC5 | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| SU3 | Industrial uses: Uses of substances as such or in preparations* at industrial sites |

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