

Material Safety Data Sheet

M100088-MS-EN-3.0W

Morechem Material Safety data sheet according to Regulation (EC) No 1907/2006 (REACH)

Issue Date : 2020. 04. 07

Revision Date : 2023. 10. 25

Product Name : Marigold Calendula Officinalis Flower Water Organic

Product code : M100088

INCI : Calendula officinalis flower water (and) Potassium Sorbate (and) Sodium Benzoate
(and) Citric Acid

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

1.1 Product identifier

Trade name : Marigold Calendula Officinalis Flower Water Organic

REACH Registration No. : Applies to exceptions

KREACH Registration No. : Applies to exceptions

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

Relevant identified uses : Cosmetic ingredient

1.3 Details of the Supplier of the safety data sheet

Manufacturer : Morechem Co., Ltd.

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Telephone No. : +82-2-588-7752

Fax No. : +82-2-588-7052

E-mail : info@morechem.net

1.4 Emergency telephone number

+82-2-588-7752

SECTION 2: Hazards identification

According to CLP Regulation

2.1 Classification of the substance or mixture

Not applicable

2.2 Label elements

Hazard pictograms Not applicable

Signal word Not applicable

Hazard statements Not applicable

Precautionary statements Not applicable

2.3 Other hazards

Not available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

INCI	CAS No	EC No	REACH Registration No.	Content (%)	Classification according to CLP Regulation.
Calendula officinalis flower water	-	-	Exemption, Annex V	99.3	Not Classified
Potassium Sorbate	590-00-1	246-376-1	Exemption, < 1 TON	0.2	Eye Irrit. 2 H319
Sodium Benzoate	532-32-1	208-534-8	Exemption, < 1 TON	0.2	Not Classified
Citric Acid	5949-29-1	201-069-1	01-2119457026-42	0.3	Not Classified
Total				100.0	

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes	Remove contaminated, soaked clothing immediately and dispose of safely.
Following inhalation	Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.
Following skin contact	Immediately flush with plenty of water for at least 20 minutes. Seek medical attention.
Following eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
Following ingestion	Call a physician immediately. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No significant symptoms are expected due to the non-classification of the product.
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Have physician know about the material and take treat. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray, carbon dioxide(CO ₂), foam, dry chemical.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire. Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases.

5.2 Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of: carbon monoxide(CO), carbon dioxide(CO₂) etc.

5.3 Advice for firefighters

Firefighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full firefighting turn our gear.

Cool containers / tanks with water spray. Dike and collect water used to fight fire.

Water runoff can cause environmental damage. Keep people away from and upwind of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment	Wearing of suitable protective equipment. See SDS section 8 - 8.2 Exposure controls - Personal protection equipment.
Emergency procedures	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Provide sufficient air exchange and/or exhaust in work rooms. In case of fire, emergency cooling with water spray should be available.

6.2 Environmental precautions

Keeping away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

For containment	Prevent further leakage or spillage.
For cleaning up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.
Other information	None.

6.4 Reference to other sections

See SDS section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advice on safe handling	See SDS section 8 - 8.2 Exposure controls - Personal protection equipment.
Fire preventions	Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharges.
Aerosol and dust generation preventions	Provide sufficient air exchange and/or exhaust in work rooms.
Environmental precautions	Reduce the release of the substance or mixture to the environment.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice.

Not to eat, drink and smoke in work areas.

To wash hands after use.

To remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Packaging materials	-
Storage temperature	15 - 25 °C
Above temperature limit the product properties will change. The property change is reversible by stirring and heating.	

Further information on storage conditions

Store the product in dark and at 15~25°C.

Keep the container closed.

Once opened, it cannot be restored.

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The product has not been tested.

The test result has been derived from substances/product of a similar structure or composition.

Occupational exposure limits

No occupational exposure limits known.

DNEL/PNEC-values

Not available

8.2 Exposure controls

Personal protection equipment

Eye and face protection	Safety glasses with side-shields(frame goggles).
Skin protection	Body protection must be chosen depending on activity and possible exposure. e.g. apron, protecting boots, chemical-protection suit.
Hand protection	Protective gloves made of nitrile rubber(NBR).
Respiratory protection	Local exhaust.

Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice.

No eating, drinking, smoking or tobacco use at the place of work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Specification	Parameter	Method
Appearance	Transparent liquid ~ Transparent Pale Yellow liquid	Sensory test (SM004)
Odour	Characteristic	Sensory test (SM008)
Odour threshold	Not available	Not available
pH	2.5 ~ 4.5	Direct, 25°C (SM005)
Melting point / freezing point	Not available	Not available
Initial boiling point and boiling range	Not available	Not available
Flash point	Not classified	Flash point calculation (SM016)
Evaporation rate	Not available	Not available
Flammability (solid, gas)	Not applicable	Not available
Upper/lower flammability or explosive limits	Not available	Not available
Vapour pressure	Not available	Not available
Vapour density	Not available	Not available
Specific gravity	Not available	Not available
Solubility	Not available	Not available
Partition coefficient: n-octanol/water	Not available	Not available
Auto-ignition temperature	Not available	Not available
Decomposition temperature	Not available	Not available
Viscosity	Not available	Not available
Molecular Weight	Not available	Not available
Explosive properties	Not available	Not available
Oxidising properties	Not available	Not available

9.2 Other information

Specification	Parameter	Method
Microbial content (CFU/ml)	< 100, No pathogen	CTFA, Microbiology guidelines, M-1 (SM007)
Heavy metals (ppm)	< 20	KFDA test method* (ICP-MS) (SM226)
As (ppm)	< 2	KFDA test method* (ICP-MS) (SM226)

* Distribution cosmetics safety management standard and test method

SECTION 10: Stability and Reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None if used for intended purpose.

10.4 Conditions to avoid

See SDS section 7 - Handling and storage.

10.5 Incompatible materials

No substances known that should be avoided.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

The product has not been tested.

The test result has been derived from substances/product of a similar structure or composition.

Acute toxicity	Oral	About	N/A	mg/kg
	Inhalation	About	N/A	mg/L
	Dermal	About	N/A	mg/kg
Skin corrosion/irritation		Not available		
Eye damage/irritation		Not available		
Skin sensitisation		Not available		
Respiratory sensitisation		Not available		
Repeated dose toxicity		Not available		
Genetic toxicity in vitro		Not available		
Genetic toxicity in vivo		Not available		
Carcinogenicity		Not available		
Toxicity to reproduction		Not available		
Developmental toxicity / teratogenicity		Not available		

SECTION 12: Ecological information

12.1 Ecological toxicity

The product has not been tested.

The test result has been derived from substances/product of a similar structure or composition.

Short-term toxicity	Fish	About	N/A	mg/L
	Aquatic invertebrates	About	N/A	mg/L
	Aquatic algae	About	N/A	mg/L
Long-term toxicity	Fish	About	N/A	mg/L
	Aquatic invertebrates	About	N/A	mg/L
	Aquatic algae	Not available		
Toxicity to microorganisms		Not available		
Sediment toxicity		Not available		
Terrestrial toxicity		Not available		
Toxicity to soil macroorganisms except arthropods		Not available		
Toxicity to terrestrial arthropods		Not available		
Toxicity to terrestrial plants		Not available		
Toxicity to soil microorganisms		Not available		
Toxicity to birds		Not available		
Toxicity to mammals		Not available		

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Transport and distribution

12.5 Results of PBT and vPvB assessment

This product does not contain any substances that meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No further information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local regulations.

SECTION 14: Transport Information

Not classified as hazardous under each transport regulations.

Transport regulations	Land transport:		Inland waterway transport:	Sea transport:	Air transport:
	ADR	RID	ADN	IMDG	IATA*-DGR/ICAO-IT
14.1 UN number	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.6 Special precautions for user	None known	None known	None known	None known	None known

* IATA: Not classified as hazardous under transport regulations.

Compliance with IATA Dangerous Goods Regulations (DGR) 55th Edition 2014.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not classified as hazardous under transport regulations.

Compliance with Annex II of MARPOL and the IBC Code.

SECTION 15: Regulatory information

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

Korea (Occupation safety and health acts)	Not applicable
Korea (Chemical substance management act)	Not applicable
Korea (Hazardous material Safety management act)	Not applicable
Korea (Wastes control act)	Not applicable
Korea (Persistent organic pollutants management act)	Not applicable
EU Classification information (Classification)	Not applicable
EU Classification information (Hazard statements)	Not applicable
EU Classification information (Safety statements)	Not applicable
American management information (OSHA)	Not applicable
American management information (CERCLA)	Not applicable
American management information (EPCRA 302)	Not applicable
American management information (EPCRA 304)	Not applicable
American management information (EPCRA 313)	Not applicable
material)	Not applicable
material)	Not applicable
American management information (Montreal protocol material)	Not applicable
Other regulations	Not available

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

- Source**
1. KOSHA
 2. ECHA
 3. Regulation (EC) No 1907/2006 (REACH)
 4. Regulation (EC) No 1272/2008 (CLP)
- Others** Not available

Checked by Min A Yeo
Researcher



Approved by Ji-Ean Lee
R&D Director



It was based on occupation safety and health acts and Morechem co., Ltd internal rules.

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.