

# Material Safety Data Sheet

M102074-MS-EN-1.0W

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

Issue Date : 2024. 03. 21

Revision Date : -

Product Name : AquaNet+SPDRN

Product code : M102074

INCI : Sodium Hyaluronate Crosspolymer (and) Sodium DNA (and) Butylene Glycol (and) 1,2-Hexanediol (and) Ethylhexylglycerin (and) Water

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

### 1.1 Product identifier

Trade name	AquaNet+SPDRN
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
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### 1.3 Details of the Supplier of the safety data sheet

Manufacturer	Morechem Co., Ltd.
Address	717, Korea Business Center Building, 309, Gangnam-daero, Seocho-gu, Seoul, Republic of Korea
Telephone No.	+82-2-588-7752
Fax No.	+82-2-588-7052
E-mail	<a href="mailto:info@morechem.net">info@morechem.net</a>

1.4 Emergency telephone number	+82-2-588-7752
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## 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.
Sodium Hyaluronate Crosspolymer	-	-	Exemption, Polymer	0.8	Not Classified
Sodium DNA	-	-	Exemption, < 1 TON	1	Not Classified
Butylene Glycol	107-88-0	203-529-7	01-2119455875- 25-0002	10	Not Classified
1,2-Hexanediol	6920-22-5	230-029-6	01-2119987321- 35-0000	2	Not Classified
Ethylhexylglycerin	70445-33-9	408-080-2	01-0000015745- 65-0001	0.1	Eye Dam. 1 H318 Aquatic Chronic 3 H412
Water	7732-18-5	231-791-2	Exemption, Annex IV	86.1	Not Classified
<b>Total</b>				<b>100.0</b>	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

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

<b>Symptoms</b>	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

<b>Notes to physician</b>	Have physician know about the material and take treat. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, carbon dioxide(CO <sub>2</sub> ), foam, dry chemical.
<b>Unsuitable extinguishing media</b>	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(CO<sub>2</sub>) 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

<b>Protective equipment</b>	Wearing of suitable protective equipment. See SDS section 8 - 8.2 Exposure controls - Personal protection equipment.
<b>Emergency procedures</b>	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

<b>For containment</b>	Prevent further leakage or spillage.
<b>For cleaning up</b>	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.
<b>Other information</b>	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

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

<b>Packaging materials</b>	-
<b>Storage temperature</b>	1 - 30 °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 1~30°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

<b>Eye and face protection</b>	Safety glasses with side-shields(frame goggles).
<b>Skin protection</b>	Body protection must be chosen depending on activity and possible exposure. e.g. apron, protecting boots, chemical-protection suit.
<b>Hand protection</b>	Protective gloves made of nitrile rubber(NBR).
<b>Respiratory protection</b>	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	Viscous pale yellow ~ pale Brown liquid	Sensory test (SM004)
Odour	Characteristic	Sensory test (SM008)
Odour threshold	Not available	Not available
pH	5.5 ~ 8.5	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.

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

<b>Short-term toxicity</b>	<b>Fish</b>	About	N/A	mg/L
	<b>Aquatic invertebrates</b>	About	N/A	mg/L
	<b>Aquatic algae</b>	About	N/A	mg/L
<b>Long-term toxicity</b>	<b>Fish</b>	About	N/A	mg/L
	<b>Aquatic invertebrates</b>	About	N/A	mg/L
	<b>Aquatic algae</b>	Not available		
<b>Toxicity to microorganisms</b>		Not available		
<b>Sediment toxicity</b>		Not available		
<b>Terrestrial toxicity</b>		Not available		
<b>Toxicity to soil macroorganisms except arthropods</b>		Not available		
<b>Toxicity to terrestrial arthropods</b>		Not available		
<b>Toxicity to terrestrial plants</b>		Not available		
<b>Toxicity to soil microorganisms</b>		Not available		
<b>Toxicity to birds</b>		Not available		
<b>Toxicity to mammals</b>		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
<b>14.1 UN number</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2 UN proper shipping name</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3 Transport hazard class(es)</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4 Packing group</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5 Environmental hazards</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.6 Special precautions for user</b>	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** Da Jeong Kim  
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.