

Material Safety Data Sheet

MSDS No.: MSDS#8025091E

First Revision Date: 2021.01.13

Product Name: SuperDissol Instant MOPS Buffer

Last Revision Date: 2024.11.28 Version No.:2.0

Section 1: Chemical Product & Company Identification

Identification of the Substance or Mixture

Product Code : 8025091/8025092

Product Name : SuperDissol Instant MOPS Buffer

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified uses

For research use only. Not applicable for diagnostic procedures.

Uses advised

Not for consumer use.

Identification of the Company/Undertaking

Manufacturer: Shenzhen Dakewe Bio-engineering Co., Ltd.

Address: Room 702-703, Building No.1, Shenzhen Biomedicine Innovations Industrial Park, No.14 Jinhui Road, Kengzi Street, Pingshan District, Shenzhen, China

24-hour emergency response for hazardous articles [or hazardous goods] accidents. For spill, release, fire, exposure or accident, call Chemical Transportation Emergency Center (CHEMTREC).

International: +1-703-741-5970 and +1-703-527-3887

China: 4001-204937

USA: 1-800-424-9300 and +1-703-527-3887

National/regional emergency number (if any)

CHEMTREC Hong Kong (Hong Kong) 800-968-793

CHEMTREC Singapore 800-101-2201 and +(65)-31581349

CHEMTREC Taiwan 0081-14-8954

Section 2: Hazards Identification

Australian SDS Statement

Not classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS).

GHS Classification

Health hazards

| | |
|----------------------------------|-------------|
| Skin corrosion/irritation | Category 1 |
| Severe eye injury/eye irritation | Category 2A |
| Sensitization (skin) | Category 1 |

Physical hazards

Not hazardous

Environmental hazards

Not hazardous

Label Elements

Signal word

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Warning

Hazard pictograms



Hazard pictographs

Proprietary Reagent CP (0.1 %)

Hazard statements

H315 Causes skin
irritation H319 Causes
serious eye irritation
H317 May cause an allergic skin reaction

Precautionary statements Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves/eye protection/face protection

Response

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
P337+P313 If eye irritation persists: Get medical advice/ attention

Storage

Preserved in sealed containers

Disposal

Contents/containers must be disposed of according to local/regional/national/international regulations

Other Hazards

Not applicable

Section 3: Composition/Information on Ingredients

| Ingredient | CAS No | Common Name | EINECS No. | Concentration or Concentration Range (mass fraction, %) |
|------------------------|----------|----------------|------------|---|
| Sodium dodecyl sulfate | 151-21-3 | Not applicable | 205-788-1 | 2-6 |

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Section 4: First Aid Measures

Description of first aid measures

Skin contact Rinse with plenty of water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Ingestion Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Note to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

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Not applicable

Indication of any immediate medical attention and special treatment

None

Section 5: Fire-fighting Measures

Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical powder.

Unsuitable extinguishing media No data available.

Special hazards arising from the substance or mixture

Unknown

Advice for firefighters

Wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Always wear recommended personal protective equipment.

Use personal protective equipment.

See Section 8 for more details.

Environmental precautions

Prevent the product from entering drains and do not let the material contaminate groundwater systems.

Methods for containment and removal of spilled chemicals and disposal materials used

Soak up with an inert absorbent material (sand, silica gel, acid binder, universal binder, saw dust, etc.)

Sweep and transfer with a shovel into an appropriate container for disposal. Thoroughly clean contaminated surfaces.

Reference to other sections

See Sections 7, 8 and 13 for more details.

Section 7: Handling and Storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advice is necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end uses

For research use only.

Section 8: Exposure Controls/Personal Protection

Control Parameters

| Chemical Name | Australia STEL | Australia | Australia – Skin Absorbers | Australia - OES - Peak |
|------------------------------------|----------------|-----------|----------------------------|------------------------|
| Sodium dodecyl sulfate 151-21-3 | None | None | None | None |

| Chemical Name | New Zealand – Workplace Exposure Limits | New Zealand TWA | New Zealand STEL | New Zealand Ceiling |
|---------------|--|-----------------|------------------|---------------------|
|---------------|--|-----------------|------------------|---------------------|

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| | | | | Limits |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Sodium dodecyl sulfate 151-21-3 | No data available | No data available | No data available | No data available |

| Chemical Name | China OEL (MAC) | China-Skin Absorbers | Hong Kong OEL |
|------------------------------------|-----------------|----------------------|---------------|
| Sodium dodecyl sulfate 151-21-3 | None | None | None |

| Chemical Name | Korea OEL (CEILING) | Korea OEL (TWA) | Korea OEL (STEL) |
|------------------------------------|---------------------|-----------------|------------------|
| Sodium dodecyl sulfate 151-21-3 | None | None | None |

| Chemical Name | Taiwan OEL - TWA | Taiwan OEL (Skin Notations, Carcinogens) | Taiwan OEL (STELs) | Taiwan OEL (Ceilings) |
|------------------------------------|------------------|--|--------------------|-----------------------|
| Sodium dodecyl sulfate 151-21-3 | None | | None | |

| Chemical Name | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|------------------------------------|-----------------|------------------|
| Sodium dodecyl sulfate 151-21-3 | None | None |

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Exposure Controls

| | |
|-----------------------------------|--|
| Respiratory protection | In case of insufficient ventilation, wear respirators and components tested and approved under appropriate government standards. |
| Hand protection | Wear suitable gloves. Glove material: Compatible chemical-resistant gloves. |
| Eye protection | Tight sealing safety goggles. |
| Skin and body protection | Wear suitable protective clothing. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. |
| Control of environmental exposure | No special environmental precautions required. |

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

| | | |
|-----------------------------|--------------------------------|--------------------------------|
| Appearance | Granular crystals | |
| Odor | No data available | |
| Molecular weight | No data available | |
| pH | No data available | |
| Melting point/melting range | °C Mixture has not been tested | °F Mixture has not been tested |
| Boiling point/boiling range | °C Mixture has not been tested | °F Mixture has not been tested |
| Flash point | °C Mixture has not been tested | °F Mixture has not been tested |
| Autoignition temperature | °C Mixture has not been tested | °F Mixture has not been tested |
| Decomposition temperature | °C Mixture has not been tested | °F Mixture has not been tested |
| Evaporation rate | No data available | |
| Flammability (solid, gas) | No data available | |
| Upper explosive limit | No data available | |
| Lower explosive limit | No data available | |
| Vapor Pressure | No data available | |

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| | |
|--|-------------------|
| Vapor density | No data available |
| Relative density | No data available |
| Specific gravity | No data available |
| Solubility | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| Particle properties | No data available |

Other information

No data available

Section 10: Stability and Reactivity

| | |
|------------------------------------|--|
| Reactivity | Unknown |
| Chemical stability | Stable under normal conditions |
| Possibility of hazardous reactions | Hazardous reaction has not been reported |
| Conditions to avoid | No data available |
| Incompatible materials | No hazardous reaction known under conditions of normal use |
| Hazardous decomposition products | No data available |

Section 11: Toxicological Information

Information on toxicological effects

| Chemical Name | Oral LD ₅₀ | Dermal LD ₅₀ | Inhalation LC ₅₀ |
|------------------------|-----------------------|-------------------------|-------------------------------|
| Sodium dodecyl sulfate | 1,288 mg/kg (rat) | 50 mg/kg (rab) | >3900 mg/m ³ (Rat) |

Main routes of exposure

| | |
|--------------------------|--|
| Irritation | Conclusive but not sufficient for classification |
| Corrosion | Conclusive but not sufficient for classification |
| Sensitization | Conclusive but not sufficient for classification |
| STOT - single exposure | Conclusive but not sufficient for classification |
| STOT - repeated exposure | Conclusive but not sufficient for classification |
| Carcinogenicity | Conclusive but not sufficient for classification |
| Mutagenicity | Conclusive but not sufficient for classification |
| Reproductive toxicity | Conclusive but not sufficient for classification |
| Inhalation hazard | Conclusive but not sufficient for classification |

Section 12: Ecological Information

Toxicity

Contain no substances known to be hazardous to the environment or not degradable.

| Chemical Name | Freshwater Algae Data | Water Flea Data | Freshwater Fish Species Data | Microtox Data | log Pow |
|------------------------|--|--|------------------------------|-------------------|-----------|
| Sodium dodecyl sulfate | <i>Pseudokirchneriella subcapitata</i> EC ₅₀ = 3.59- 15.6 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i> EC ₅₀ = 117 mg/L (96 h) <i>Desmodesmus subspicatus</i> EC ₅₀ = 30-100 mg/L (96 h) | <i>Daphnia magna</i> EC ₅₀ =1.8 mg/L (48 h) | No data available | No data available | logPow1.6 |

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| | | | | | |
|--|---|--|--|--|--|
| | <i>Desmodesmus subspicatus</i> EC ₅₀ = 53 mg/L (72 h) | | | | |
|--|---|--|--|--|--|

Mobility in soil No data available.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No data available.

Section 13: Disposal Considerations

Waste disposal methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of according to approved disposal techniques. Disposal of this product, its solutions or by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14: Transport Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number Not applicable

UN proper shipping name Not applicable

Transport hazard classes Not applicable

Packaging group Not applicable

Environmental hazards

Not applicable

Special precautions for user

Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Section 15: Regulatory Information

International Inventory

| Chemical Name | US TSCA | Canada (DSL) | NDSL | PICCS (Philippines) |
|------------------------|---------|--------------|------|---------------------|
| Sodium dodecyl sulfate | Listed | Listed | - | Listed |

| Chemical Name | ENCS (Japan) | IECSC - Inventory of Existing Chemical Substances Produced or Imported in China | South Korea (KECL) | AICS (Australia) |
|------------------------|--------------|---|--------------------|------------------|
| Sodium dodecyl sulfate | Listed | Listed | Listed | Listed |

| Chemical Name | NZIoC - New Zealand Inventory of Chemicals | EINECS (EU) | ELINCS (European List of Notified Chemical Substances) |
|------------------------|--|-------------|--|
| Sodium dodecyl sulfate | Listed | Listed | - |

UN - Chemical Weapons Convention (CWC)

Not applicable

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South Korea

| Chemical Name | Industrial Safety and Health Act (ISHA) | Chemicals Control Act (CCA) | Wastes Control Act |
|------------------------|---|-----------------------------|--------------------|
| Sodium dodecyl sulfate | Not applicable | Not applicable | Not applicable |

Singapore

| Chemical Name | Singapore - Poisons List |
|------------------------|--------------------------|
| Sodium dodecyl sulfate | Not listed |

Taiwan (China)

| Chemical Name | Toxic Chemical Substances Control Act - Classification and Control Levels | Toxic Chemical Substances Control Act - Threshold Regulated Quantities | Hazard Prevention Standard for Specified Chemical Substances |
|------------------------|---|--|--|
| Sodium dodecyl sulfate | Not listed | Not listed | Not listed |

China

| Chemical Name | China - Catalogue of Occupational Hazard Factors | China - Dangerous Goods List | China - Catalog of Hypertoxic Chemicals | China - List of Dangerous Chemicals for Priority Management |
|------------------------|--|------------------------------|---|---|
| Sodium dodecyl sulfate | Not listed | Not listed | Not listed | Not listed |

Section 16: Other Information

For research use only. Not applicable for diagnostic procedures.

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

Abbreviations and acronyms

TWA - Time-weighted average

OELs - Occupational exposure limits

STEL - Short-term exposure limit

DSL/NDL - Canada Domestic Substances List/Non-domestic Substance List

KECL - Korea Existing Chemicals List

ENCS - Japanese Existing and New Chemical Substances

IECSC - Inventory of Existing Chemical Substances Produced or Imported in China

PICCS - Philippine Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/European List of Notified Chemical Substances

TSCA - Chemical Substance Inventory, Section 8 (b) of Toxic Substance Control Act

CEPA - Canadian Environmental Protection Act

EPA - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration, United States Department of Labor

IATA - International Air Transport Association

DOT - Department of Transportation

IMDG - International Maritime Dangerous Goods

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Hazardous Materials Information System, Department of Defense

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NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

"The information contained here has been compiled through diligent searches and/or investigations. The recommendations given should be used with caution based on professional judgment. The information given should not be considered all-inclusive and should be interpreted as guidance only. All materials and mixtures may present unknown hazards and should be used with caution. Our company assumes no responsibility for damages or losses resulting from handling or exposure to the product described herein, since we have no control over the actual methods, quantities or conditions of use.

The information in this SDS does not constitute any express or implied warranty, including any implied warranty of merchantability or fitness for a particular purpose."

End of Safety Data Sheet