MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

# Section 1: Chemical Product & Company Identification

## Identification of the Substance or Mixture

Product Code: 8015171/8015172

Product Name: SuperDissol Instant HEPES 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

Warning



Page 1/8

MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

# 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

P333+P313 P337+P313

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention

If eye irritation persists: Get medical advice/ attention

Storage

Preserved in sealed containers

Disposa

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. If symptoms persist, consult a physician.

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



MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

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 (CO<sub>2</sub>). 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	None	None	None	None
151-21-3				

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



MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

Sodium dodecyl sulfate	No data available	No data	No data	No data available	Г
151-21-3		available	available		

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

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

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

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

Engineering measures Ensure adequate ventilation, especially in confined areas.

## Exposure Controls

## Personal protective equipment

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 Wear suitable protective clothing.

protection

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Control of No special environmental precautions required.

environmental exposure

# 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

Evaporation rate No data available



MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

Flammability (solid, gas)	No data available
Upper explosive limit	No data available
Lower explosive limit	No data available
Vapor Pressure	No data available
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 <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Chemical Name	Orai LD50	Dermai LD50	Innaration LC50
Sodium dodecyl sulfate	1,288 mg/kg (rat)	50 mg/kg (rab)	>3900mg/m³(Rat)

## Main routes of exposure

Irritation Conclusive but not sufficient for classification Corrosion Conclusive but not sufficient for classification Conclusive but not sufficient for classification Sensitization Specific target organ toxicity (STOT) - single exposure Conclusive but not sufficient for classification Specific target organ toxicity (STOT) - repeated exposure Conclusive but not sufficient for classification Conclusive but not sufficient for classification Carcinogenicity Conclusive but not sufficient for classification Mutagenicity Conclusive but not sufficient for classification Reproductive toxicity 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	Seudokirchneriella subcapitata	Daphnia magna	No data available	No data available	logPow1.6
sulfate	$EC_{60} = 3.59-15.6 \text{ mg/L (96 h)}$	EC <sub>50</sub> = 1.8 mg/L			
		(48 h)			



MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

Pseudokirchneriella sub	bcapitata -			
$EC_{50} = 117 \text{ mg/L}$ (9	96 h)			
Desmodesmus subsp	icatus			
EC <sub>50</sub> = 30-100 mg/L	(96 h)			
Desmodesmus subsp	icatus			
$EC_{50} = 53 \text{ mg/L}$ (7)	2 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	IECSC - Inventory of Existing Chemical	South Korea	AICS
	(Japan)	Substances Produced or Imported in China	(KECL)	(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	-



MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

## UN - Chemical Weapons Convention (CWC)

Not applicable

#### 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	Singa pore - 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/NDSL - 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



MSDS No.: MSDS#8015171E First Revision Date: 2021.01.13

Product Name: SuperDissol Instant HEPES buffer Last Revision Date: 2024.11.29 Version No.: 2.0

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

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.

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End of Safety Data Sheet

