

SAFETY DATA SHEET

SpecPed® SC-PT38 (0.025%)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Trade Name: SpecPed® SC-PT38 (0.025%)

Substance Name: Palmitoyl Tripeptide-38, beta.-Cyclodextrin, 2-hydroxypropyl ethers, Hydrogen oxide, Octane-1,2-diol, 3-(2-Ethylhexyloxy)propane-1,2-diol, 1,2,3-Propanetriol, Trehalose

CAS No.: 1447824-23-8; 128446-35-5; 7732-18-5 ; 1117-86-8; 70445-33-9; 56-81-5; 6138-23-4

EC No.: --; 420-920-1; 231-791-2; 214-254-7; 408-080-2; 200-289-5; 612-140-5

Index No.: --

REACH Registration No.: *This substance is exempted from Registration as < 1t/a for each composition*

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

Relevant identified uses: Raw material for Cosmetic

Uses advised against: No data available

1.3 Details of the supplier of the safety data sheet

Manufactured By: Spec-Chem Industry Inc.
No.10 Wanshou Road (ShiLin Industrial Park)
Nanjing 211800, P.R. of China

Phone Number: 86-25-84523390, 84523391

Fax Number: 86-25-84520790, 84520791

Email: sc@specchemind.com

1.4 Emergency telephone number: +49 1704724533

SECTION 2: HARZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.1.2 Additional information:

No more data.

2.2 Label elements

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

The product does not need to be labelled in accordance with EC directives or respective national law.

2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Substance name	INCI Name	CAS No.	EC No.	Index number in CLP Annex VI	Weight % content	SCL/M-factor/ATE
1,2,3-Propanetriol	Glycerin	56-81-5	200-289-5	--	To 100	-
Hydrogen oxide	Water	7732-18-5	231-791-2	--	20-30	-
beta.-Cyclodextrin, 2-hydroxypropyl ethers	Hydroxypropyl Cyclodextrin	128446-35-5	420-920-1	--	1-3	-
Trehalose	Trehalose	6138-23-4	612-140-5	--	0.2-1	-
Octane-1,2-diol	Caprylyl Glycol	1117-86-8	214-254-7	--	0.08-0.8	Eye Irrit. 2 H319: C \geq 1 %
3-(2-Ethylhexyloxy)propane-1,2-diol	Ethylhexylglycerin	70445-33-9	408-080-2	--	0.01-0.2	Eye Dam. 1 H318: C \geq 1 % Aquatic Chronic 3; H412: C \geq 25 %
Palmitoyl Tripeptide-38	Palmitoyl Tripeptide-38	1447824-23-8	--	--	0.02-0.03	-

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

In case of skin contact

Wash off with soap and plenty of water. Take off contaminated clothing and wash it before reuse.

In case of eye contact

Flush eyes gently with water for at least 15 minutes while holding eyelids apart: seek immediate medical attention.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: high volume water jet.

5.2 Special Hazards arising from the substance or mixture

No data available.

5.3 Advice for Fire Fighters

Wear protective clothing to prevent contact with skin and eyes.

Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Wear the recommended personal protective equipment. For more information, see section 8: "Exposure controls / personal protection".

Emergency procedures: Ventilate the spill area. Keep unnecessary staff away.

6.1.2 For emergency responders:

Protective equipment: Do not handle without suitable protective equipment. Provide adequate protection for cleaner. For more information, see section 8: "Exposure controls / personal protection".

Emergency procedures: Ensure well ventilated.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not empty into drains/surface water/ground water.

6.3 Methods and materials for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures: Do not handle or use product until safety precautions recommended in the SDS have been read and fully understood. Wear personal protective equipment. Ensure good ventilation to avoid the formation of dust. Avoid open flames.

Advice on general occupational hygiene: Wash hands and other exposed areas thoroughly after handling. Do not eat, drink or smoke while using this product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Packaging materials: Inner: Plastic barrels.

7.3 Specific end uses

no data available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

8.1.1. National occupational / biological exposure limit values

No data available

8.1.2. Information on monitoring procedures

No data available

8.1.3. Air contaminants formed

No data available

8.1.4. DNELs / PNECs values

No data available

8.1.5. Control banding

No data available

8.2 Personal protective equipment

8.2.1. Appropriate engineering controls

Ensure the workplace is well ventilated.

8.2.2. Individual protection measures, such as personal protective equipment

Avoid unnecessary exposure.

8.2.2.1 Eye and face protection: Safety glasses with side shields. Wear eye protection according to EN 166.

8.2.2.2 Skin protection:

Hand protection: Protective gloves made of plastic or rubber. Wear gloves that have been tested according to the EN 374 standard.

Other skin protection: Wear suitable protective clothing when working

8.2.2.3 Respiratory protection: Respirator with organic vapor cartridge. Not applicable with adequate ventilation.

8.2.2.4 Thermal hazards: No further information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

Other Information: Do not eat, drink or smoke while using.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Viscous liquid
Colour	Colorless to pale beige
Odour	No data available
Melting point	No data available
Boiling point	No data available

Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water	No data available
Vapour pressure	No data available
Relative Density	1.205 - 1.325
Refractive index (n ₂₅)	1.435 - 1.555

9.2 Other Information

9.2.1. Information with regard to physical hazard classes

No info available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No unusual reactivity

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available.

10.5 Incompatibilities materials

No data available.

10.6 Hazardous decomposition products

No hazardous decomposition products with proper storage and handling.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Glycerin

Acute toxicity

Oral: Long-Evans rat, Swiss mouse, guinea pig, LD50: $\geq 11,500$ mg/kg.

Dermal: guinea pig, LD50: 56,750 mg/kg.

Inhalation: rat, inhalation: vapour, 4h-LC50: >275 mg/L.

Skin corrosion/irritation

In vivo skin irritation: Albino rabbit, occlusive, Duration of treatment / exposure: 24 hours. A round-robin testing program was conducted in 14 laboratories. The dermal irritation potential was examined. Glycerin was considered to be non irritating to the skin in rabbit irritation studies in 14 testing laboratories.

Serious eye damage/ irritation

In vivo eye irritation: rabbit, Based on the results obtained from 20 different testing laboratories, glycerin was considered to be nonirritating in 19 laboratories and of questionable irritation in one laboratory.

Respiratory or skin sensitization

Skin sensitization: according to human test results, glycerol is not a skin sensitizer.

Respiratory sensitization: no respiratory sensitization symptoms were found in the 13 week inhalation test.

Germ cell mutagenicity

Bacterial reverse mutation assay: *S. typhimurium* TA 1535, TA 1537, TA 98 and TA 100, negative.

Bacterial reverse mutation assay: OECD 471, *S. typhimurium*, other: TA 98, TA 100, TA 1535, TA 1537, TA 1538, negative.

In Vitro Mammalian Cell Gene Mutation Test: OECD 476, Chinese hamster Ovary (CHO), negative.

In vitro DNA damage and/or repair study: OECD 482, hepatocytes: rat, negative.

In Vitro Mammalian Chromosome Aberration Test: OECD 473, Chinese hamster Ovary (CHO), negative.

Carcinogenicity

Long-Evans rat, The carcinogenic potential of glycerin was examined by administrating the test material in the diet for up to two years to rats. Administration of glycerin for up to two years in the diet did not result in an increase in tumor formation. NOAEL: 8 000 mg/kg bw/day.

Reproductive toxicity

Two-generation reproductive toxicity: rat, oral: gavage, Glycerin was administered by oral gavage to groups of male and female rats through two generations. There was no effect noted on growth, fertility and reproductive performance through two generations at a dose level of ~2000 mg/kg/day. NOAEL: 2 000 mg/kg bw/day.

Developmental toxicity: OECD 414, Wistar rat, oral: gavage, A developmental toxicity study was conducted in rats. There was no effect on developmental toxicity of offspring of female rats dosed with glycerin at doses as high as 1310 mg/kg/day. NOAEL (maternal toxicity): 1 310 mg/kg bw/day, NOAEL (development toxicity): 1 310 mg/kg bw/day.

Developmental toxicity: OECD 414, CD-1 mouse, oral: gavage, A developmental toxicity study was conducted in mice. There was no effect on developmental toxicity of offspring of female mice dosed with glycerin at doses as high as 1280 mg/kg/day. NOAEL (maternal toxicity): 1 280 mg/kg bw/day, NOAEL (development toxicity): 1 280 mg/kg bw/day.

Developmental toxicity: OECD 414, Dutch rabbit, oral: gavage, A developmental toxicity study was conducted in rabbits. There was no effect on developmental toxicity of offspring of female rabbits dosed with glycerin at doses as high as 1180 mg/kg/day. NOAEL (maternal toxicity): 1 180 mg/kg bw/day, NOAEL (development toxicity): 1 180 mg/kg bw/day.

Summary of evaluation of the CMR properties

Not a CMR substance.

Specific target organ toxicity - single exposure (Globally Harmonized System)

No significant toxic effects were observed in above acute oral, dermal and inhalation tests.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Chronic oral toxicity (2 years): OECD 452, Long-Evans rat, oral: feed, NOAEL: 8000-10,000 mg/kg bw.

Sub-chronic oral toxicity (90 days): rat, oral: feed, NOEL: 50000 ppm.

Sub-chronic dermal toxicity: rabbit, Test material was applied to rabbit skin for 8 hours/day, 5 days/week for 45 weeks. The Draize method was used to evaluate the skin. There were no effects noted in rabbits. NOEL: 5040 mg/kg/day.

Sub-chronic inhalation toxicity (13 weeks): OECD 413, Sprague-Dawley rat, inhalation: aerosol, The NOAEL was 167 mg/m³ based on local irritant effects on the upper respiratory tract.

Aspiration hazard

no data available

Hydroxypropyl Cyclodextrin**Acute toxicity**

Oral: equivalent to OECD 401, Sprague-Dawley rat, oral gavage: LD50: > 2 243 mg/kg bw.

Inhalation: OECD 403, Wistar rat, inhalation: dust, nose only, 4 h-LC50: > 2.95 mg/L air (analytical).

Dermal: OECD 402, Wistar rat, semioclusive exposure for 24h, LD50: > 2 000 mg/kg bw.

Skin corrosion/irritation

In vivo skin irritation: New Zealand White rabbit, equivalent to OECD 404, semioclusive exposure for 4h, nonirritant.

Serious eye damage/eye irritation

In vivo eye irritation: equivalent to OECD 405, New Zealand White rabbit, slightly irritating.

Respiratory or skin sensitization

In vivo skin sensitisation: guinea pig maximisation test, equivalent to OECD 406, Hartley guinea pig, not a sensitizer.

Germ cell mutagenicity

Bacterial Reverse Mutation Assay: OECD 471, S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2, E. coli WP2 uvr A pKM 101, negative.

In vitro mammalian chromosome aberration test: equivalent to OECD473, Chinese hamster Ovary (CHO), negative.

In vitro mammalian cell gene mutation assay: equivalent to OECD476, Chinese hamster lung fibroblasts (V79), negative.

In vitro mammalian cell gene mutation tests using the thymidine kinase gene, OECD 476, mouse lymphoma L5178Y cells, negative.

Carcinogenicity

No data available.

Reproductive toxicity

Toxicity to reproduction: Crj: CD(SD) rat, oral: gavage, first parental generation,P0, NOAEL: >= 1 000 mg/kg bw/day (nominal); F1 generation, NOAEL: 1 000 mg/kg bw/day (nominal).

Development toxicity: similar to OECD 414, HRA:[NZW]SPF rabbit, oral: gavage, maternal animals, NOAEL: < 500 mg/kg bw/day (nominal); fetuses, NOAEL: 1 000 mg/kg bw/day (nominal).

Development toxicity: similar to OECD 414, Crj: CD(SD) rat, oral: gavage, maternal animals, NOAEL: > 1 000 mg/kg bw/day (nominal); fetuses, NOAEL: >=1 000 mg/kg bw/day (nominal).

Specific target organ toxicity - single exposure (Globally Harmonized System)

No significant toxic effects were observed in above acute oral, dermal and inhalation tests.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Sub-chronic oral toxicity (90 days): equivalent to OECD 408, Sprague-Dawley rat, oral: gavage, NOAEL: >= 1 000 mg/kg bw/day (nominal), LOEL: 500 mg/kg bw/day (nominal).

Short-term repeated dose inhalation toxicity (28 days): OECD 412, Wistar rat, inhalation: dust, NOAEC (systemic toxicity) : >=1000 mg/m³, NOAEC (local effects): 10 mg/m³ air, LOAEC (local effects): 100 mg/m³ air.

Aspiration hazard

No data available

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No data available

11.2.2. Other information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Glycerin

12.1 Toxicity

Short-term toxicity:

Fish: *Oncorhynchus mykiss*, static freshwater, 96h-LC50: 54000 mg/L,

Cyprinodon variegatus, flow-through saltwater, 96h-LC50: >11000 µg/L,

Pimephales promelas, static freshwater, 96h-LC50: 885 mg/L,

Carassius auratus, static freshwater, 24h-LC50: > 5 000 mg/L.

Aquatic invertebrates: *Daphnia magna*, static freshwater, 48h-LC50: 1955 mg/L,

Daphnia magna, static freshwater, 24h-EC50: >10000 mg/L.

Aquatic algae and cyanobacteria: *Scenedesmus quadricauda*, static freshwater, 8d-EC3: >10,000 mg/L,

Microcystis aeruginosa, static freshwater, 8d EC3: 2900 mg/L.

Long-term toxicity: No data available.

Toxicity to microorganisms: *Pseudomonas putida*, static freshwater, 16h-NOEC: >10000 mg/L.

12.2 Persistence and degradability

Ready biodegradability: The biodegradation of glycerin was examined using industrial activated sludge. Glycerin was nearly completely degraded within 24 hours. 24h, the degradation (TOC removal) is 94%, readily biodegradable.

Hydrolysis: Glycerol has no hydrolysable groups and is therefore not susceptible to hydrolysis.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 PBT and vPvB assessment

The substance is not PBT / vPvB

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

Hydroxypropyl Cyclodextrin

Acute toxicity:

Short-term toxicity to fish: equivalent to OECD 203, Danio rerio, static, freshwater, 96h-LC50: > 1 131 mg/L, 96h-NOEC: >= 1 131 mg/L.

OECD 203, Lepomis macrochirus, static, freshwater, 96h-LC50: >1 000 mg/L.

Short-term toxicity to aquatic invertebrates: OECD 202, Daphnia magna, static, freshwater, 48h-LC50: > 1 084 mg/L, 48h-NOEC: >= 1 084 mg/L.

Toxicity to aquatic algae and cyanobacteria: OECD 201, Pseudokirchneriella subcapitata, static, freshwater, 96h-EC50: > 1 153 mg/L, 96h-NOEC (area under growth curve): < 1 153 mg/L, 96h-NOEC (growth rate): >= 1 153 mg/L.

Long-term toxicity:

Long-term toxicity to fish: OECD 215, Cyprinus carpio, flow-through, freshwater, 28d-LC50: > 100 mg/L, 28d-NOEC: 100 mg/L.

Long-term toxicity to aquatic invertebrates: equivalent to OECD 211, Daphnia magna, static, freshwater, 21d-NOEC: 127 mg/L, 21d-LOEC: 251 mg/L.

Toxicity to microorganisms: OECD 209, activated sludge, static, freshwater, 30min-EC50: > 100 mg/L.

12.2 Persistence and degradability

Ready Biodegradability: OECD 301 B, CO2 Evolution Test, the degradation (CO2 evolution) is < 10% at 34d, not ready biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 PBT and vPvB assessment

Not a PBT or vPvB substance.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Product

Dispose in accordance with local/ regional/national/international regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose in accordance with local/ regional/national/international regulations. Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: TRANSPROT INFORMATION

14.1 UN number:

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Land transport: Not regulated

Sea transport: Not regulated

Air transport: Not regulated

Inland waterway transport: Not regulated

Rail transport: Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: REGULATORY INFORMATION

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

EU Regulations:

Authorisations and/or restrictions on use:

Authorisations: Not regulated

Restrictions on use: Not regulated

Other EU regulations:

Information according 1999/13/EC about limitation of emissions of volatile organic

compounds (VOC-guideline): Not regulated

National regulations:

TSCA: United States Toxic Substances Control Act (TSCA) Inventory

NZIoC: New Zealand Inventory of Chemicals (NZIoC)

PICCS: Philippines Inventory of Chemicals and Chemical Substances (PICCS)

AIIC: Australian Inventory of Industrial Chemicals (AIIC)

DSL: Canada Domestic Substances List (DSL)

NDSL: Canada Non-Domestic Substances List (NDSL)

China IECSC: Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)

KECL: Korea Existing Chemicals List (KECL)

NCI: Vietnam National Chemical Inventory (NCI)

Listing	Glycerin	Water	Hydroxy propyl Cyclode xtrin,	Trehalose	Caprylyl Glycol	Ethylhexy Ilycerin	Palmitoyl Tripeptide -38
TSCA	Listed	Listed	Listed	Not Listed	Listed	Not Listed	Not Listed
NZIoC	Listed	Listed	Listed	Listed	Listed	Listed	Not Listed
PICCS	Listed	Listed	Not Listed	Listed	Not Listed	Listed	Not Listed
AIIC	Listed	Listed	Listed	Listed	Listed	Listed	Not Listed
DSL	Listed	Listed	Not Listed	Not Listed	Listed	Listed	Not Listed
NDSL	Not Listed	Not Listed	Listed	Not Listed	Not Listed	Not Listed	Not Listed
China IECSC	Listed	Listed	Listed	Listed	Listed	Listed	Not Listed
KECL	Listed	Listed	Listed	Not Listed	Listed	Listed	Not Listed
NCI	Listed	Listed	Listed	Listed	Listed	Listed	Not Listed

15.2 Chemical Safety Assessment

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

SECTION 16: OTHER INFORMATION

Version information:

Version 2: Updated in accordance with Regulation (EC) No.1907/2006, (EC) No.1272/2008 and (EC) No. 2015/830. Add available data for section 11 and 12.

Abbreviations and acronyms:

EC, effect concentration

LD, lethal dose

LC, lethal concentration

LOEL, lowest-observed-effect level

NOAEL, no-observed-adverse-effect level

NOEC, no-observed-effect-concentration-concentration

STOT RE, specific organ toxicity, repeated exposure

STOT SE, specific target organ toxicity, single exposure

PBT, persistent, bioaccumulative, and toxic

vPvB, very persistent, very bioaccumulative

DNELs, Derived No Effect Levels

PNECs, Predicted No Effect Concentrations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

Key literature references and sources for data

<https://echa.europa.eu/registration-dossier/-/registered-dossier/14481>

<https://echa.europa.eu/registration-dossier/-/registered-dossier/27504>

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SPEC-CHEM IND shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

End of SDS