

SAFETY DATA SHEET Revision: 07/13/2021

In accordance with Regulation (EC) No.1907/2006, (EC) No.1272/2008 and (EC) No. 2015/830

SAFETY DATA SHEET

SpecPed® SC-PP18(0.05%)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier :

Product Name: SpecPed® SC-PP18(0.05%)

1.2 Use of the substance/preparation/: raw material of cosmetics

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: +8618651861021

2. HAZARDOUS IDENTIFICATION

According to Regulation (EC) No 1272/2008:

2.1 Classification of the substance or mixture

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

2.2 Label elements

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

2.3 Other hazard

No data

3. COMPOSITION/INFORMATION ON INGREDIENT

3.1 Substance

INCI Name	CAS No.	EC No.	Composition, %
Pentapeptide-18	64963-01-5	--	≥0.05
Water	7732-18-5	231-791-2	To 100
Glycerin	56-81-5	200-289-5	≤11.0
Caprylyl Glycol & Ethylhexylglycerin	1117-86-8&70445-33-9	214-254-7&408-080-2	≤0.5

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.

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

no data available

4.2 Indication of any immediate medical attention

no data available

5. FIRE FIGHTING MEASURES

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

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.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions**

Avoid contact with skin and eyes

6.2 Environmental precautions

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.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Do not handle or use product until safety precautions recommended in the SDS have been read and fully understood. Avoid open flames. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROL PERSONAL PROTECTION

8.1 Control Parameters:No Data Available

8.2 Personal protective equipment

Respiratory protection

Respirator with organic vapor cartridge. Not applicable with adequate ventilation.

Hand protection

Protective gloves made of plastic or rubber.

Eye protection

Safety glasses with side shields

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear colorless to pale beige viscous liquid
Peptide content:	≥0.05%
pH:	3.00-6.00
Melting point:	No data available
Boiling point:	No data available
Decomposition temperature:	No data available
Flash Point:	No data available
Decomposition point:	No data available
Autoignition temperature:	No data available
Evaporation rate (N-butyl acetate =1):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Density(25°C):	No data available
Viscosity (25°C ,mPa.s):	No data available
Water solubility:	No data available

9.2 Other Information

No additional information available

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 material

Other Materials Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions-Carbon oxides.

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological information

11.1.1 Toxicological information for Glycerin

Acute toxicity

Oral: LD50-rat(female)-27200 mg/kg

Inhalation: L(Ct)50-rat(male)-4655 mg minute/liter

Dermal: LD50-guinea pig(male/female)-56,750 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

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/eye irritation

A round-robin testing program was conducted in 20 laboratories. The eye irritation potential was examined.

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

no data available

Germ cell mutagenicity

In the Ames test-In vitro-S. typhimurium TA 1535, TA 1537, TA 98 and TA 100

The mutagenicity potential of glycerin was examined using the Ames test. The test material was negative as tested in the Ames test.

Carcinogenicity

NOAEL-rat-8 000 mg/kg bw/day

There was no indication of a carcinogenic response in rats fed 8000 mg/kg/day glycerol in the diet for 2 years.

Reproductive toxicity

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.

Teratogenicity

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.

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

no data available

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

Oral: NOAEL-rat(male/female)-8000~10000 mg/kg bw

Inhalation: NOAEL-rat(male/female)-167 mg/m³ air (analytical)

Dermal: NOEL-rabbit-5040 mg/kg/day.

Aspiration hazard

no data available

Potential health effects

no data available

Signs and Symptoms of Exposure

no data available

Synergistic effects

no data available

11.2 Toxicological information for Caprylyl Glycol**Acute toxicity**

Oral: LD50-rat(male/female)-> 2000 mg/kg bw

Inhalation: LC50-rat(male/female)->7.015 mg/L air

Dermal-no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

Guide to Quasi-drug and Cosmetic Regulations in Japan, Yakuji Nippo, Ltd., Feb.

2006-Rabbit

Occlusive administration of 1,2-octanediol to clipped, intact or clipped, abraded skin of three rabbits for 24 hours did not induce any skin reactions during the present study, i.e. during 72 hours after treatment start.

According to EU classification rules [REGULATION (EC) 1272/2008] the outcome of this study does not necessitate any labelling regarding skin irritation.

Serious eye damage/eye irritation

EU Method B.5-rabbit

Eyes were evaluated in both animals at approximately 1, 24, 48 and 72 hours after test material instillation adopting the numerical scoring system listed in Table 1 in the field below. Additional examinations were performed daily thereafter ending 16 and 14 days after test material instillation in animals #1 and #2, respectively. Grades attained at 48, 72 and 96 hours after instillation were included in the mean gradings of ocular lesions. Staining with fluorescein sodium solution supported the recognition of corneal lesions in animal #1 at 6 & 9 days after test material instillation and in #2 at 6, 8, 10 & 14 days after test material instillation.

Respiratory or skin sensitization

OECD 429-in vivo (LLNA)-mouse(female)-not sensitising

At all test concentrations, premature deaths or signs of systemic toxicity were not evident. All vehicle control animals and animals treated with 5 or 10% w/w test material dilution were free from clinical signs or local irritation during the entire study. All animals treated with 25% w/w test material dilution showed ear swelling grade 1 (of 3, slight in degree) from approximately 2 hours after the first administration (Day 1) and erythema grade 1 (of 4, very slight in degree) from Day 2 until Day 4. By Day 5, these signs of local irritation had disappeared and all animals were entirely free from clinical signs for the remainder of the study.

Germ cell mutagenicity

OECD 471/EU Method B.13/14/EPA OPPTS 870.5100-S.typhimurium, other: TA 98 and TA 100-negative without and with metabolic activation (S9)

Carcinogenicity

no data available

Reproductive toxicity

NOAEL-rat(male/female)->= 1 000 mg/kg bw/day (nominal)

Teratogenicity

NOAEL-rat(male/female)-> 300 - < 1 000 mg/kg bw/day (nominal)

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

no data available

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

NOAEL-rat(male/female)-> 150 - < 300 mg/kg bw/day (actual dose received)

Aspiration hazard

no data available

Potential health effects

no data available

Signs and Symptoms of Exposure

no data available

Synergistic effects

no data available

11.3 Toxicological information for Ethylhexylglycerin**Acute toxicity**

Oral: LD50-rat(male/female)-> 2000 mg/kg bw

Inhalation: LC50-rat(male/female)-3.07 mg/L air (analytical); LC50-rat(male)-2.83 mg/L air (analytical); LC50-rat(female)-3.22 mg/L air (analytical)

Dermal-LD50-rat(male/female)-> 2000 mg/kg bw

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

OECD 406-in vivo (non-LLNA)-guinea pig(male/female)-negative

Germ cell mutagenicity

OECD 471-in vitro-S. typhimurium TA 1535, TA 1537, TA 98 and TA 100-negative

OECD 474-in vivo-mouse(male/female)-negative

Carcinogenicity

no data available

Reproductive toxicity

NOEL-rat(male/female)-50 mg/kg bw/day (nominal)

Teratogenicity

NOAEL-rat(male/female)-800 mg/kg bw/day (nominal)

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

no data available

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

NOEL-rat(male/female)-100 mg/kg bw/day (nominal)

Aspiration hazard

no data available

Potential health effects

no data available

Signs and Symptoms of Exposure

no data available

Synergistic effects

no data available

12. ECOLOGICAL INFORMATION

12.1 Ecological information for Glycerin

12.1 .1 Toxicity

Short-term toxicity to fish

LC50-fathead minnows->885 mg/L-96h

LC50-Cyprinodon variegatus-11000 mg/L-96h

Short-term toxicity to aquatic invertebrates

LC50-Daphnia magna-1 955 mg/L-48h

Toxicity to aquatic algae and cyanobacteria

EC50-S. quadricauda and M. aeruginosa-2900 mg/L

Toxicity to microorganisms

NOEC-microorganisms->10000 mg/L-16h

12.1.2 Persistence and degradability

Readily biodegradable

The biodegradation of glycerin was examined using industrial activated sludge. Glycerin was nearly completely degraded within 24 hours. No indication is given in the report whether the microorganisms were pre-adapted. However, given that glycerin is considered a primordial biomolecule from which many biomolecules are derived, pre-adaptation is probably minimal.

12.1.3 Bioaccumulative potential

no data available

12.1.4 Mobility in soil

no data available

12.1.5 PBT and vPvB assessment

The substance is not PBT / vPvB

12.1.6 Other adverse effects

no data available

12.2 Ecological information for Caprylyl Glycol

12.2 .1 Toxicity

Short-term toxicity to fish

LC50-Brachydanio rerio-2.2-22 mg/L-96h

Short-term toxicity to aquatic invertebrates

EC50-Daphnia magna- > 100 mg/L-48h

Toxicity to aquatic algae and cyanobacteria

EC50-Pseudokirchneriella subcapitata-35 mg/L;

NOEC-Pseudokirchneriella subcapitata-15 mg/L;

EC10-Pseudokirchneriella subcapitata-17 mg/L;

12.2.2 Persistence and degradability

EU Method C.4-E/OECD 301D-75% degradation (O2 consumption)-28d-readily biodegradable

12.2.3 Bioaccumulative potential

The study does not need to be conducted because the substance has a low potential for bioaccumulation based on log Kow <=3

12.2.4 Mobility in soil

no data available

12.2.5 PBT and vPvB assessment

no data available

12.2.6 Other adverse effects

no data available

12.3 Ecological information for Ethylhexylglycerin

12.3 .1 Toxicity

Short-term toxicity to fish

LC50-Danio rerio-60.2 mg/L

Long-term toxicity to fish

NOEC-Danio rerio (previous name: Brachydanio rerio)-1.5 mg/L-35d

Short-term toxicity to aquatic invertebrates

EC50-Daphnia magna-78.3 mg/L-48h

NOEC-Daphnia magna-36 mg/L-48h

Long-term toxicity to aquatic invertebrates

NOEC-Daphnia magna-20mg/L-21d

LOEC-Daphnia magna-40mg/L-21d

EC50-Daphnia magna-44.7mg/L-21d

Toxicity to aquatic algae and cyanobacteria

NOEC-Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)-22.17

mg/L-72h

EC50-Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)-48.28 mg/L-72h

Toxicity to microorganisms

EC50-activated sludge-560 mg/L-3h

12.3.2 Persistence and degradability

OECD 301D-20.6% degradation (O2 consumption)-28d-not really biodegradability

12.3.3 Bioaccumulative potential

no data available

12.3.4 Mobility in soil

no data available

12.3.5 PBT and vPvB assessment

Based on the results of experimental studies on biodegradation and ecotoxicology, the substance is not a PBT / vPvB substance.

12.3.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATION

13.1 Waste treatment method

Product

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 of as unused product.

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

no data available

15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EC) No 1272/2008.

15.2 Chemical Safety Assessment

No data

16. OTHER INFORMATION

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