

**SAFETY DATA SHEET****SpecPed® PT20 (0.05%)****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier:**

Trade Name: SpecPed® PT20 (0.05%)

Substance Name: 1,2,3-Propanetriol, Hydrogen oxide, DL-hexane-1, 2-diol, 3-(2-Ethylhexyloxy)propane-1,2-diol, Palmitoyl Tetrapeptide-20 Amide

CAS No.: 56-81-5, 7732-18-5, 6920-22-5, 70445-33-9, --

EC No.: 200-289-5, 231-791-2, 230-029-6, 408-080-2, --

Index No.: --, --, --, 603-168-00-9, --

REACH Registration No.: *This substance is exempted from Registration as < 1t/a.***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](mailto:sc@specchemind.com)Only representative: SpecChem GmbH  
Prinzenallee 1, 40549 Düsseldorf, Germany

Phone Number: +4917673592556

**1.4 Emergency telephone number:**

112 / 116117 (European Union)

1-800-424-9300/ +1 703-527-3887 (North America, CCN 1010066)

**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.

Version: 1.0

Draft date: 2022.10.31

## 2.3 Endocrine disrupting properties

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-fact or/ATE
1,2,3-Prop anetriol	Glycerin	56-81-5	200-289-5	--	70 - 85	-
Hydrogen oxide	Water	7732-18-5	231-791-2	--	15 - 25	-
DL-hexane -1, 2-diol	1,2-Hexanedi ol	6920-22-5	230-029-6	--	1 - 2	Eye Irrit. 2 H319: C ≥ 1 %
3-(2-Ethylh exyloxy)pro pane-1,2-di ol	Ethylhexylgly cerin	70445-33-9	408-080-2	603-168 -00-9	0.1 - 0.3	Eye Dam. 1 H318: C ≥ 1 %; Aquatic Chronic 3; H412: C ≥ 25 %
Palmitoyl Tetrapeptid e-20 Amide	Palmitoyl Tetrapeptide-20 Amide	--	--	--	0.05 - 0.07	-

## 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. Wash hands thoroughly after handling.

#### In case of eye contact

Version: 1.0

Draft date: 2022.10.31

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.

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**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.

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**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.

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**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Protective measures: Do not handle or use product until safety precautions

Version: 1.0

Draft date: 2022.10.31

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: Keep container tightly closed, away from light, room temperature storage for 12 months, 2 - 8°C storage for 24 months.

Packaging materials: Barreled.

### 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.

Version: 1.0

Draft date: 2022.10.31

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state	Solution
Colour	Clear
Odour	Characteristic
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 (100%)	4.5 - 7.5
Solubility	No data available
Partition coefficient n-octanol/water	No data available
Vapour pressure	No data available
Density	No data available
Relative vapour density	No data available

**9.2 Other Information****9.2.1. Information with regard to physical hazard classes**

No data 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 data available.



Version: 1.0

Draft date: 2022.10.31

**SECTION 11: TOXICOLOGICAL INFORMATION****1, 2 -Hexanediol****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Oral: OECD 401, Sprague-Dawley rat, oral: gavage, LD50 (male): 6 166 mg/kg bw, LD50 (female):  $\geq 5\,339$  -  $\leq 6\,470$  mg/kg bw.

Dermal: OECD 402, Tif: RAI f (SPF) rat, occlusive, LD50:  $> 2\,000$  mg/kg bw.

Inhalation: OECD 403, Tif: RAI f (SPF) rat, inhalation: aerosol, 4h-LC50:  $> 7\,015$  mg/m<sup>3</sup> air.

**Skin corrosion/irritation**

In vivo skin irritation: OECD 404, Russian Albino rabbit, occlusive, non-irritant.

**Serious eye damage/eye irritation**

In vivo eye irritation: ASTM E 1055-85, New Zealand White rabbit, The mean score for the 24, 48 and 72 hour scoring interval for corneal opacity, iritis, conjunctivitis and chemosis were 2, 0.89, 1.78, 1.78, respectively, irritating.

**Respiratory or skin sensitization**

Skin sensitisation: in vivo (LLNA): OECD 429, CBA mouse, not sensitizing.

**Germ cell mutagenicity**

In Vitro Bacterial Reverse Mutation Assay: OECD 471, *S. typhimurium* TA 1535, TA 1537, TA 1538, TA 98, TA 100 and *E. coli* WP2, *E. coli* WP2 uvr A pKM 101, negative.

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

In Vitro Mammalian Cell Gene Mutation Test: OECD 476, Chinese hamster lung fibroblasts (V79), negative.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

Two-Generation Reproduction Toxicity Study: OECD 416, CD-1 mouse, oral: feed or water, P0 (first parental generation), NOAEL:  $\geq 14\,400$  mg/kg bw/day. F1 generation, NOAEL:  $\geq 14\,400$  mg/kg bw/day. F2 generation,  $\geq 14\,400$  mg/kg bw/day (read-across).

Prenatal Developmental Toxicity Study: OECD 414, Crj: CD(SD) rat, oral: gavage, NOAEL: 300 mg/kg bw/day (Developmental Toxicity), 500 mg/kg bw/day (General toxicity).

**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 acute oral, dermal, and inhalation tests.

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

Subchronic Dermal Toxicity: 90-Day Study, OECD 411, Sprague-Dawley rat, occlusive, NOAEL: 700 mg/kg bw/day, LOAEL: 1 000 mg/kg bw/day.

**Aspiration hazard**

Version: 1.0

Draft date: 2022.10.31

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

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**SECTION 12: ECOLOGICAL INFORMATION****1, 2 -Hexanediol****12.1 Toxicity****Acute toxicity:**

Short-term toxicity to fish: OECD 203, *Oncorhynchus mykiss*, static, freshwater, 96h-LC50: > 1 000 mg/L.

Short-term toxicity to aquatic invertebrates: OECD 202, *Daphnia magna*, static, freshwater, 48h-EC50: > 110 mg/L, 48h-NOEC: >= 110 mg/L.

Toxicity to aquatic algae and cyanobacteria: OECD 201, *Pseudokirchneriella subcapitata*, static freshwater, 72h-EC50: > 100 mg/L, 72h-NOEC: >= 100 mg/L.

**Long-term toxicity:**

No data available.

**12.2 Persistence and degradability**

Ready biodegradability: OECD 301B, Ready Biodegradability: CO2 Evolution Test, the degradation rate is 83.7% at 28d, readily biodegradable..

**12.3 Bioaccumulative potential**

Low potential for bioaccumulation based on logKow=0.58.

**12.4 Mobility in soil**

Low potential for adsorption based on logKow=0.58.

**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**

Toxicity to microorganisms: OECD 209, activated sludge of a predominantly domestic sewage, static freshwater, 3h-EC50: > 1 000 mg/L, 3h-NOEC: >= 1 000 mg/L.

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**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**

Version: 1.0

Draft date: 2022.10.31

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:

Listing	Water	1,2-Hexanedi ol	Ethylhexy lglycerin	Glycerin	Palmitoyl Tetrapept ide-20
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Version: 1.0

Draft date: 2022.10.31

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United States Toxic Substances Control Act (TSCA) Inventory	Listed	Listed	Not Listed	Listed	Not Listed
New Zealand Inventory of Chemicals (NZIoC)	Listed	Listed	Listed	Listed	Not Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Listed	Listed	Listed	Listed	Not Listed
Australian Inventory of Industrial Chemicals (AIIC)	Listed	Listed	Listed	Listed	Not Listed
Canada Domestic Substances List (DSL)	Listed	Listed	Listed	Listed	Not Listed
Canada Non-Domestic Substances List (NDSL)	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Vietnam National Chemical Inventory (NCI)	Listed	Listed	Listed	Listed	Not Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed	Listed	Listed	Listed	Not Listed
China Catalog of Hazardous chemicals 2015	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Korea Existing Chemicals List (KECL)	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 1.0: Complied in accordance with Regulation (EC) No.1907/2006 as amended by Regulation (EU) 2020/878, (EC) No.1272/2008.

### Abbreviations and acronyms:

LD, lethal dose

LC, lethal concentration

EC, effect concentration

NOEC, no-observed-effect-concentration-concentration

NOAEL, no-observed-adverse-effect level

LOAEL, lowest-observed-adverse-effect level

PBT, persistent, bioaccumulative, and toxic

vPvB, very persistent, very bioaccumulative

DNELs, Derived No Effect Levels

Version: 1.0

Draft date: 2022.10.31

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

**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.

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End of SDS