

## SAFETY DATA SHEET

### SpecPed® SKE

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

##### 1.1 Product identifier:

Trade Name: SpecPed® SKE

Substance Name: 1,2,3-Propanetriol, Hydrogen oxide, Octane-1,2-diol, Dipeptide diaminobutyroyl Benzylamide diacetate, 3-(2-Ethylhexyloxy)propane-1,2-diol

CAS No.: 56-81-5, 7732-18-5, 1117-86-8, 823202-99-9, 70445-33-9

EC No.: 200-289-5, 231-791-2, 214-254-7, --, 408-080-2

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

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](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: HAZARDOUS 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

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national law.

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### 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-factor/ATE
1,2,3-Propanetriol	Glycerin	56-81-5	200-289-5	--	50 - 80	-
Hydrogen oxide	Water	7732-18-5	231-791-2	--	25 - 50	-
Octane-1,2-diol	Caprylyl Glycol	1117-86-8	214-254-7	--	0.1 - 0.5	Eye Irrit. 2, H319, C ≥ 1 %
Dipeptide diaminobutyroyl Benzylamide diacetate	Dipeptide diaminobutyroyl Benzylamide diacetate	823202-99-9	--	--	0.25 - 0.35	-
3-(2-Ethylhexyloxy)propane-1,2-diol	Ethylhexylglycerin	70445-33-9	408-080-2	603-168-00-9	0.05 - 0.1	Eye Dam. 1, H318: C ≥ 1 %; Aquatic Chronic 3, H412: C ≥ 25 %

## 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

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before reuse. Wash hands thoroughly after handling.

#### **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.

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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**

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### 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: 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

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## 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.

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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	Clear to slightly opaque, colorless to yellowish
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 (100%)	4.0 - 6.0
Solubility	No data available
Relative density (d <sub>20</sub> /20)	1.150 - 1.220
Refractive index (n <sub>25</sub> )	1.410 - 1.450
Partition coefficient n-octanol/water	No data available
Vapour pressure	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.

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## 10.6 Hazardous decomposition products

No data available.

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### Glycerin

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

###### **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 administering 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

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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/m<sup>3</sup> based on local irritant effects on the upper respiratory tract.

#### 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

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## SECTION 12: ECOLOGICAL INFORMATION

### Glycerin

#### 12.1 Toxicity

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## Aquatic 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.

## 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. The degradation (TOC removal) is 94% at 24h., 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

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

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

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and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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## **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

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## **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

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#### **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)

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

KECL: Korea Existing Chemicals List (KECL)

NCI: Vietnam National Chemical Inventory (NCI)

Listing Composition	TSCA	NZIoC	PICCS	AIIC	DSL	NDSL	China IECSC	KECL	NCI
Water	X	X	X	X	X	-	X	X	X
Caprylyl Glycol	X	X	-	X	X	-	X	X	X
Ethylhexylglycerin	-	X	X	X	X	-	X	X	X
Glycerin	X	X	X	X	X	-	X	X	X
Dipeptide diaminobutyryl Benzylamide diacetate	-	-	-	-	-	-	-	-	-

Note: -, Not listed; X, 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 2.0: Updated in accordance with Regulation (EC) No.1907/2006 as amended by Regulation (EU) 2020/878, (EC) No.1272/2008. Add available data in SECTION 11, 12 and 15.

### Abbreviations and acronyms:

LD, lethal dose

LC, lethal concentration

EC, effect concentration

NOEL, No Observed Effect Level

NOAEL, no-observed-adverse-effect level

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

### ECHA

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

### 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