

Safety Data Sheet

PCRopsis™ RVD Enhancer



Section 1: Chemical Product and Company Identification

Product Name: PCRopsis™ RVD Enhancer
Catalog No.: 783364010 / 783364100
CAS#: Mixture.
RTECS: Mixture.
TSCA: TSCA 8(b) inventory: Components were listed.
CI#: Not applicable.
Synonym: None
Chemical Name: Not applicable.
Identified Uses: In vitro diagnostic use

Contact Information of Manufacturer:
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Section 2: Composition and Information on Ingredients

Composition:

| Name | CAS# / RTECS# | % by Weight |
|--------------|---------------|-------------|
| Trade Secret | Trade Secret | <5% |
| Trade Secret | Trade Secret | <5% |
| Trade Secret | Trade Secret | <2% |
| Trade Secret | Trade Secret | <1% |
| Trade Secret | Trade Secret | >88% |

Section 3: Hazards Identification

Classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

GHS Label elements, including precautionary statements

Pictogram none

Signal word Warning

Hazard statement(s) H227 Combustible liquid.

Precautionary statement(s) P210 Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

Rapidly absorbed through skin.

Section 4: First Aid Measures

Eye Contact:

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

Skin Contact:

Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

Ingestion:

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 300 - 302 °C (572 - 576 °F) at 1,013 hPa

Flash Points: 87 °C (189 °F) - closed cup - ASTM D 93

Flammable Limits: Upper explosion limit: 28.5 %(V) Lower explosion limit: 2.6 %(V)

Products of Combustion: No data

Fire Hazards in Presence of Various Substances: No data

Explosion Hazards in Presence of Various Substances: No data

Fire Fighting Media and Instructions: No data

Section 6: Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

Section 7: Handling and Storage**Handling:****Precautions for safe handling**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Storage:

Tightly closed.

Storage class (TRGS 510): 10: Combustible liquids

Store 20 - 25°C.

Section 8: Exposure Controls/Personal Protection**Engineering Controls:**

Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Chloroprene Minimum layer thickness: 0.65 mm Break through time: 480 min Material tested:KCL 720 Camapren® This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Latex gloves Minimum layer thickness: 0.6 mm Break through time: 240 min Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

Respiratory protection

required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. NIOSH respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9: Physical and Chemical Properties**Information on basic physical and chemical properties**

- a) Appearance Form: clear, liquid Color: clear
- b) Odor odorless
- c) Odor Threshold No data available
- d) pH Not applicable
- e) Melting point/freezing point Melting point/range: 16 - 19 °C (61 - 66 °F)
- f) Initial boiling point and boiling range 189 °C 372 °F
- g) Flash point 87 °C (189 °F) - closed cup - ASTM D 93
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits Upper explosion limit: 28.5 %(V) Lower explosion limit: 2.6 %(V)
- k) Vapor pressure 0.55 hPa at 20 °C (68 °F)
- l) Vapor density 2.70 - (Air = 1.0)
- m) Relative density 1.1 g/mL
- n) Water solubility completely miscible
- o) Partition coefficient: n-octanol/water log Pow: -1.35 at 20 °C (68 °F) - Bioaccumulation is not expected.
- p) Autoignition temperature 300 - 302 °C (572 - 576 °F) at 1,013 hPa
- q) Decomposition temperature > 190 °C (> 374 °F)
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

Other safety information

Solubility in other solvents Alcohol - soluble Diethyl ether - soluble

Surface tension 43.5 mN/m at 20 °C (68 °F)

Dissociation constant 35.1

Relative vapor density 2.70 - (Air = 1.0)

Section 10: Stability and Reactivity Data**Reactivity**

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

No data available

Conditions to avoid

Strong heating.

Incompatible materials

Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulfur oxides. Other decomposition products - No data available

Section 11: Toxicological Information**Acute toxicity**

LD50 Oral - Rat - male and female - 28,300 mg/kg
(OECD Test Guideline 401)
LC0 Inhalation - Rat - male and female - 4 h - > 5.33 mg/l
(OECD Test Guideline 403)
LD50 Dermal - Rat - male and female - 40,000 mg/kg
Remarks: (ECHA)
No data available

Skin corrosion/irritation

Skin - Rabbit
Result: slight irritation - 4 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit
Result: slight irritation - 24 h
(OECD Test Guideline 405)

Respiratory or skin sensitisation

Maximisation Test - Guinea pig
Result: negative
(OECD Test Guideline 406)
Local lymph node assay (LLNA) - Mouse
Result: negative
(OECD Test Guideline 429)

Germ cell mutagenicity

Ames test
Salmonella typhimurium
Result: negative
sister chromatid exchange assay
Chinese hamster ovary cells
Result: negative
Mutagenicity (mammal cell test): chromosome aberration.
Chinese hamster ovary cells
Result: negative
OECD Test Guideline 474
Rat - male and female
Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 18 Months - No observed adverse effect level - 3,300 mg/kg - Lowest observed adverse effect level - 9,900 mg/kg

Repeated dose toxicity - Monkey - male and female - Dermal - 18 Months - No observed adverse effect level - \geq 8,910 mg/kg - Lowest observed adverse effect level - 990 mg/kg RTECS: PV6210000

Exposure to large amounts can cause: redness of skin, Itching, burning, sedation, Headache, Nausea, Dizziness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Eyes - Eye disease - Based on Human Evidence Eyes - Eye disease - Based on Human Evidence

Section 12: Ecological Information**Toxicity**

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - $>$ 25,000 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 24,600 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 17,000 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria EC50 - activated sludge - 10 - 100 mg/l - 30 min (ISO 8192)

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 31 % - Not readily biodegradable. (OECD Test Guideline 301D)

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available Stability in water - 0.12 - 1.2 h at 30 °C pH 7 Remarks: Hydrolyzes readily.

Section 13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information**LAND TRANSPORT (US DOT):**

DOT Proper Shipping Name: Combustible liquid

DOT Hazard Class:

UN/NA Number: NA1993 Packing Group: III

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: 1993 Packing Group: III

Hazard Class:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

UN Number: 1993 Packing Group: III

Hazard Class:

Additional Transport Information:

Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

Section 15: Other Regulatory Information

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313

Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312

Hazards Fire Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act. No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

dimethyl sulphoxide CAS-No. 67-68-5 Revision Date 2007-03-01

New Jersey Right To Know Components

dimethyl sulphoxide CAS-No. 67-68-5 Revision Date 2007-03-01

Section 16: Other Information**References:**

Other Special Considerations: Not available.

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Last Updated:

This product is offered for in vitro diagnostic use. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Entopsis, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even Entopsis, Inc. has been advised of the possibility of such damages.