

SAFETY DATA SHEET

SECTION I - IDENTIFICATION

PRODUCT NAME: CAS #: Manufacturer's Name: Address:

Telephone #:

FAX #:

(1R,2R,3S,5R)-(-)-Pinanediol 22422-34-0 CHEM-IS-TRY, INC. 160-4 LIBERTY ST. METUCHEN, NJ 08840 (732) 372- 7311 Secondary Telephone No: CHEMTREC (732) 372- 7312 (800) 424-9300

24 Hours a Day

Relevant identified uses of the substance or mixture and uses advised againstIdentified uses:Laboratory chemicals, synthesis of substances

SECTION II - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms: [1R-(1α,2α,3α,5α)]-2,6,6-Trimethylbicyclo[3.1.1]heptane-2,3- diol (-)-2-Hydroxyisopinocampheol

Formula: C₁₀H₁₈O₂

Molecular weight: 170.25 g/mol

CAS-No.: 22422-34-0

No components need to be disclosed according to the applicable regulations.

SECTION IV - FIRST AID MEASURES

Description of first aid measures

If inhaled, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact, wash off with plenty of water.

In case of eye contact, Flush eyes with water as a precaution.

If swallowed, seek medical attention. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section II and/or in section XI)

Indication of any immediate medical attention and special treatment needed No data available

SECTION V - FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, Sodium oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas. For personal protection see section VIII.

Environmental precautions:

No special environmental precautions required.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections For disposal see section XIII.

SECTION VII - HANDLING AND STORAGE

Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section II.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep in dry place.

Specific end use(s)

Apart from the uses mentioned in section I, no other specific uses are stipulated.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance:	Form: powder Color: white
b) Odor:	No data available
c) Odor Threshold:	No data available
d) pH:	Not applicable
e) Melting point/freezing point:	Melting point/range: 57 - 59 °C (135 - 138 °F) - lit.
f) Initial boiling point and boiling range:	101 - 102 °C 214 - 216 °F at 1 hPa - lit.

CHEM-IS-TRY, Inc.

g) Flash point:	110 °C (230 °F) - closed cup	
h) Evaporation rate:	No data available	
i) Flammability (solid, gas):	No data available	
j) Upper/lower flammability or	No data available	
explosive limits:		
k) Vapor pressure:	No data available	
l) Vapor density:	No data available	
m) Relative density:	No data available	
n) Water solubility:	No data available	
 o) Partition coefficient: n-octanol/water 	No data available	
p) Auto-ignition temperature:	No data available	
q) Decomposition temperature:	No data available	
r) Viscosity:	No data available	
s) Explosive properties:	No data available	
t) Oxidizing properties:	No data available	

Other safety information

No data available

SECTION X - STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions No data available

Conditions to avoid No data available

Incompatible materials Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section V.

SECTION XI - TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

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 identified as a carcinogen or potential carcinogen by OSHA.

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

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION XII - ECOLOGICAL INFORMATION

Toxicity No data available

Persistence and degradability No data available

Bio accumulative potential No data available

CHEM-IS-TRY, Inc.

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

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION XIV - TRANSPORT INFORMATION

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous good

SECTION XV - REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: 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

No SARA Hazards.

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

(1R,2R,3S,5R)-(-)-2,3-Pinanediol	CAS-No. 22422-34-0	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
(1R,2R,3S,5R)-(-)-2,3-Pinanediol	22422-34-0	Nevision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION XVI - OTHER INFORMATION

Disclaimer:

EXCEPT AS SPECIFICALLY SET FORTH IN THE TERMS AND CONDITIONS AVAILABLE AS SET FORTH BELOW, CHEM-IS-TRY, INC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE FOR CHEMICALS IT SELLS.

Notwithstanding any different or additional terms that may be embodied in your forms, letters and papers. Any order received by Chem-is-try, Inc. will be accepted only on the condition that you expressly assent to the terms and conditions available online at <u>www.chem-is-try.com</u>

The information contained herein is to our best knowledge true and accurate. Recommendations and suggestions are made without guarantee of favorable results since conditions of use are beyond our control. These data shall not be construed as a recommendation to use any product in conflict with existing patents covering any material or use