

MATERIAL SAFETY DATA SHEET
(2R,3R)-3-PHENYLGLYCIDOL 96%

Section 1 - Chemical Product and Company Identification

MSDS Name:	(2R,3R)-3-PHENYLGLYCIDOL 96%
Catalog Numbers:	69.37
Synonyms:	(2R,3R)-2,3-Epoxy-3-phenyl-1-propanol; (2R,3R)-3-Phenyloxiranemethanol
Company Identification:	Tau-Chem, Ltd. Nobelova 34, P.O. Box 29 836 05 Bratislava, Slovak Republic Phone: +421 2 44 452 252 Fax: +421 2 44 457 645
Relevant identified uses of substance or mixture and uses advised against	
Identified uses	Laboratory chemicals, Manufacture of substances
POISON CENTER:	National Toxicological Information Centre Limbová 5, 833 05 Bratislava,
Emergency Numbers Slovakia:	Phone: +421 2 54 774 166 Fax: +421 2 54 774 605

Section 2 – Hazards Identification

Classification according to Regulation (EC) No 1272/2008

Classification of the substance or mixture

Acute toxicity, Oral (Category 4)
Acute toxicity, Dermal (Category 4)
Acute Inhalation Toxicity - Dusts and Mists (Category 4)
Skin Irritation/Corrosion (Category 2)
Eye Irritation/Corrosion (Category 2A)
Carcinogenicity (Category 2)
Specific target organ irritation – single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed and in contact with skin. Irritating to eyes, respiratory system.
Suspected of causing cancer.

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Label elements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H312

Harmful in contact with skin

H351

Suspected of causing cancer

69.37

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(2R,3R)-3-PHENYLGLYCIDOL

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled
H335	May cause respiratory irritation.
Precautionary statement(s) EU (§28, 1272/2008)	
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P301+ P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352	IF ON <u>SKIN</u> : Wash with plenty of soap and water.
P304+P340	IF <u>INHALED</u> : Remove victim to fresh <u>air</u> and keep at rest in a position comfortable for <u>breathing</u> .
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Hazard symbol(s)

According to European Directive 67/548/EEC as amended



Hazard symbol(s)

Xn	Harmful
R-phrase(s)	
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect
S-phrase(s)	
S26	In contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33/39	Wear suitable gloves and eye/face protection.
Other hazards	None.

Section 3 – Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
98819-68-2	(2R,3R)-3-PHENYLGLYCIDOL	96	unlisted
Classification	STOT SE 3; Skin Irrit. 2; Eye Irrit. 2; Carc. 2; Acute Tox. 4 H335;H315;H319;H351;H302;H312;H332 Xn, R20/21/22;R36/37/38;R40		

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 – First Aid Measures

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled:	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
In case of skin contact:	Wash off with soap and plenty of water. Consult a physician.
In case eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters:	Wear self contained apparatus breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions:	Prevent further leakage or spillage if safe to do so Do not let product enter drains.
Methods and materials for containment and cleaning up	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Section 7 – Handling and Storage

Precautions for safe handling:	Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapours or spray mist. Do not ingest.
Conditions for safe storage:	Keep in a dry place. Keep container tightly closed. Keep under nitrogen. Keep refrigerated. Moisture sensitive.

Section 8 – Exposure Controls, Personal Protection

Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment:

Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection:	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection:	Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards as NIOSH (US) or EN 166 (EU)
Skin and body protection:	Impervious body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 – Physical and Chemical Properties

Appearance

Form:	Crystalline powder
Colour:	White to slightly yellow

Safety data:

pH	Not available
Melting Point:	49 - 51 °C
Boiling Point:	Not available
Flash Point:	> 110 °C
Ignition temperature:	Not available
Solubility in water:	Not available
Refractive Index:	Not available
Optical Rotation:	+49 ± 1° (c=2 CHCl ₃)
Density:	Not available
Molecular Formula:	C ₉ H ₁₀ O ₂
Molecular Weight:	150.18 g/mol

Section 10 – Stability and Reactivity

Chemical Stability:	Stabile under recommended storage conditions. May form explosive peroxides. Moisture sensitive.
Conditions to avoid:	Incompatible products, Exposure to moist air or water.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products	Hazardous decomposition products under fire conditions. – Carbon oxides.

Section 11 – Toxicological Information

Acute toxicity	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 presents at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:	No data available
Specific target organ toxicity – single exposure	Inhalation – May cause respiratory tract irritation.
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
Potential health effect:	
Inhalation	Harmful if inhaled. Cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Cause skin irritation.
Eyes	Cause eye irritation

Signs and Symptoms of Exposure

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

Additional Information

RTECS: No data available

Section 12 – Ecological Information

Toxicity:	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	No data available

Section 13 – Disposal Considerations

Product	Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

Section 14 – Transport Information

	IATA	IMDG	RID/ADR
Shipping Name:	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class:	6.1	6.1	6.1
UN Number:	2811	2811	2811
Packing Group:	III	III	III

Section 15 – Regulatory Information

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

Section 16 – Other Information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox.	Acute toxicity
Skin Irrit.	Skin irritation.
Eye Irrit.	Eye irritation.
STOT SE	Specific target organ toxicity – single exposure.
Carc.	Carcinogenicity
H302	Harmful if swallowed.
H312	Harmful in contact with skin
H351	Suspected of causing cancer
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled
H335	May cause respiratory irritation.
Xn	Harmful.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect

MSDS Creation Date: 23/2/2007

Revision #1: 24/11/2011

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer:

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.