

Safety Data Sheet

NEOPENTYL GLYCOL DIBENZOATE

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1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name Neopentyl Glycol Dibenzoate

CAS NO. 4196-89-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

1. Neopentyl Glycol Dibenzoate is used as in polycarbonate or talc-filled polypropylene to improve injection moulding by cycle-time reduction.
2. It is used in production of rigid vinyl compounds as an extrusion aid.
3. It is used in incorporation in thermoplastic polyesters (e.g. PBT, PCT, PET) to aid crystal growth during nucleation.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD PTE LTD
77 A, Boat Quay
049865
Singapore
Telephone : +6563272490
Email - contact@polymeradd.sg

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Human Health Irritating to eyes and skin.

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements No data available.

Pictogram



Signal word

Danger

Hazard symbol(s)



2.3 Other hazards No data available.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

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Chemical Name	Neopentyl Glycol Dibenzoate
CAS NO	4196-89-8
EC Number	224-081-9
Molecular Formula	C ₁₉ H ₂₀ O ₄
Molecular Weight	312.37 g/mol.
Concentration	98% Min. (Other unknown impurities upto 2%)

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

No data available

If inhaled

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

In case of skin contact

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of eye contact

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

If swallowed

wash out mouth with water provided person is conscious.
Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide, dry chemical powder, or appropriate foam.
Foam and water spray are effective but may cause frothing.

5.2 Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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5.4 **Further information** No data available

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

6.2 Environmental precautions

Keep tightly closed.

Store in a cool dry place.

6.3 Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe dust.

Avoid contact with eyes, skin, and clothing.

7.2 Information about protection against explosions and fires

Keep tightly closed.

Store in a cool dry place.

7.3 Conditions for safe storage including any incompatibilities

No data available.

7.4 Specific end use(s)

No data available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Appropriate engineering controls

Safety shower and eye bath.

Mechanical exhaust required.

Eye/face protection

Chemical safety goggles.

Skin protection

Handle with gloves.

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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

Compatible chemical-resistant gloves.

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	White to off white powder
b) Odour	Odorless
c) Odour Threshold	No data available
d) pH (% solution in water)	1.58
e) Melting point/freezing point	45 - 52 Deg C
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid or gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour 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) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	Product is Solid at room temperature.
s) Explosive properties	No data available
t) Oxidizing properties	No data available

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9.2 Other safety information

Bulk Density	No data available
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10 STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical stability	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions	No data available
10.4	Conditions to avoid	Extremes of temperature and direct sunlight.
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	Carbon monoxide, Carbon dioxide.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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	No data available.
IARC	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Signs and symptoms of exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Aspiration hazard	No data available
Inhalation	May be irritating to mucous membranes and upper respiratory tract.
Ingestion	Harmful if swallowed.
Skin	May cause skin irritation.
Eyes	May cause eye irritation.

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	RTECS	No data available
12	ECOLOGICAL INFORMATION	
12.1	Toxicity	No data available
	Toxicity to fish	May cause long lasting harmful effects to aquatic life.
	Toxicity to daphnia and other aquatic invertebrates	May cause long lasting harmful effects to aquatic life.
	Toxicity to Algae/Aquatic plants	May cause long lasting harmful effects to aquatic life.
12.2	Persistence and degradability	
	Biodegradation	
	No data available	
12.3	Bio accumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	No data available
12.6	Other adverse effects	No data available
13	DISPOSAL CONSIDERATIONS	
13.1	Waste treatment methods	
	Product	
	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.	
	Contaminated packaging	
	Dispose of as unused product.	
14	TRANSPORT INFORMATION	
14.1	UN number	
	ADR/RID	IMDG
	-	-
14.2	UN proper shipping name	
	ADR/RID	IMDG
	Not dangerous goods	Not dangerous goods
14.3	Transport hazard class(es)	
		IATA
		-

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	ADR/RID	IMDG	IATA
	-	-	-
14.4	Packaging group		
	ADR/RID	IMDG	IATA
	-	-	-
14.5	Environmental hazards		
	ADR/RID	IMDG Marine pollutant	IATA
	No	No	No
14.6	Special precautions for user	No data available	
15	REGULATORY INFORMATION		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	Safety health and environmental regulations/legislation specific for the substance or mixture		
	No data available		
15.2	Chemical Safety Assessment		
	No data available		
16	OTHER INFORMATION		
	Month of Creation	March 2019	
	Month of Revision	March 2022	