

Safety Data Sheet

N,N-DIMETHYLCYCLOHEXYLAMINE (DMCHA)

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

1.1 Product identifiers

Chemical Name

N,N-DIMETHYLCYCLOHEXYLAMINE

CAS NO.

98-94-2

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

1. used as a catalyst in the production of rigid polyurethane foams.
2. used as an intermediate for rubber accelerators and dyes and in the treatment of textiles.
3. use in a broad range of rigid foams such as insulation foams, spray, slabstock, board laminate, refrigeration foams, foam furniture frame and decorative parts manufacturing.

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

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

Pictogram



Signal word

Danger

H226

Flammable liquid and vapour.

H302

Harmful if swallowed.

H311

Toxic in contact with skin.

H314

Causes severe skin burns and eye damage.

H330

Fatal if inhaled.

H400

Very toxic to aquatic life.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection

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P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.

**According to European Directive 67/548/EEC
as amended**

2.3 Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name N,N-Dimethylaminocyclohexane

CAS NO 98-94-2

EC Number 202-715-5

Molecular Formula C8H17N

Molecular Weight 127.23 g/mol

Concentration <= 100 %

4 FIRST AID MEASURES

4.1 Description of 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

Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by

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mouth to an unconscious person.
Rinse mouth with water.
Consult 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 Dry powder Dry sand

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Wear respiratory protection.
Avoid breathing vapours, mist or gas.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations.
Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.
Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

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7.1 Precautions for safe handling

Avoid contact with skin and eyes.
Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.
Take measures to prevent the build up of electrostatic charge.

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store in cool place.

7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure control

Appropriate engineering controls

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum).
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

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.,
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Where risk assessment shows air-purifying respirators are appropriate use a fullface 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).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so.d.

Do not let product enter drains.

Discharge into the environment must be avoided.

9 PHYSICAL AND CHEMICAL PROPERTIES

a)Appearance	Clear colourless liquid
b)Odour	No data available
c)Odour Threshold	No data available
pH	12 at 5 g/l at 20 °C
e)Melting point/freezing point	60 °C
f)Initial boiling point and boiling range	158 - 159 °C - lit.
g)Flash point	39 °C - closed cup
h)Evaporation rate	No data available
i)Flammability (solid or gas)	No data available
j)Upper/lower flammability or explosive limits	19 %(V)
k)Vapour pressure	3,6 hPa at 20 °C
l)Vapour density	No data available
m)Relative density	0,849 g/cm3 at 25 °C
n)Water solubility	No data available
o)Partition coefficient: n-octanol/water	log Pow: 2,01
p)Autoignition 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

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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	Heat, flames and sparks.
10.5 Incompatible materials	Strong oxidizing agents, Strong acids
10.6 Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral - Rat - 348 mg/kg
Acute Inhalation toxicity	LC50 Inhalation - Rat - 2 h - 1.889 mg/m ³ Remarks: Behavioral:Muscle contraction or spasticity
Acute dermal toxicity	LD50 Dermal - Rat - 370 mg/kg ; Remarks: Behavioral:Tremor. Behavioral:Ataxia. Prolonged skin contact may cause skin irritation and/or dermatitis
Acute Irritation / corrosion 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 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.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated	No data available

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exposure

Signs and symptoms of exposure	No data available
Route of exposure	No data available
Aspiration hazard	No data available
Potential health effects	No data available
Inhalation	No data available
Ingestion	No data available
Skin	No data available
Eyes	No data available
RTECS	GX1198000

12 ECOLOGICAL INFORMATION

12.1	Toxicity	No data available
	Toxicity to fish	No data available
	Toxicity to daphnia and other aquatic invertebrates	No data available
	Toxicity to Algae/Aquatic plants	No data available
	Toxicity to microorganisms	No data available

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	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6	Other adverse effects	Very toxic to aquatic life. No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

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

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well

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as other national and local regulations.
Leave chemicals in original containers. No mixing with other waste.
Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA
2264	2264	2264

14.2 UN proper shipping name

ADR/RID	IMDG	IATA
N,N-DIMETHYLCYCLOHEXYL AMINE	N,N-DIMETHYLCYCLOHEXYL AMINE	N,N-DIMETHYLCYCLOHEXYL AMINE

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA
8 (3)	8 (3)	8 (3)

14.4 Packaging group

ADR/RID	IMDG	IATA
II	II	II

14.5 Environmental hazards

ADR/RID	IMDG Marine pollutant	IATA
yes	yes	No

14.6 Special precautions for user

No data available

15 REGULATORY INFORMATION

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

H226	Flammable liquid and vapour.
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage.

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H330

Fatal if inhaled.

H400

Very toxic to aquatic life.

Month of Creation

July 2020

Month of Revision

July 2023