

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers
	Product name

Website:- chemicalbull.com

· Dicyclopentadiene

CAS-No. : 77-73-6

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company

:ChemicalBull Pvt Ltd 123/124, Panchratna, G.I.D.C Char Rasta,Vapi-396195 Dist, Valsad, Gujarat, INDIA Website:- chemicalbull.com

Email: - info@chemicalbull.com

1.4 Emergency telephone

Emergency Phone

+91 9696960250

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation Flammable liquids Acute toxicity, Oral Acute toxicity, Inhalation Skin irritation Eye irritation Specific target organ toxicity - single exposure, Respiratory system, Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Label elements	
Labelling according Regu Pictogram	Ilation
Signal word	Danger
Hazard statement(s) H225 H302 H315 H319 H330 H335	Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Fatal if inhaled. May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s) P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 P301 + P312	Avoid release to the environment. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
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. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml)

Pictogram	
Signal word	Danger
Hazard statement(s) H330	Fatal if inhaled.
Precautionary statement(s) P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
Supplemental Hazard Statements	none

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.

SECTION 3: Composition/information on ingredients

3.1	SubstancesSynonyms: 4,7-Methano-3a,4,7,7a-tetrahydroindene Cyclopentadiene dimer			
	Formula Molecular weight CAS-No.	: C ₁₀ H ₁₂ : 132,20 g/mol : 77-73-6		
	Component		Classification	Concentration
	3a,4,7,7a-tetrahydro-4,7-methanoindene			
	CAS-No.	77-73-6	Flam. Liq. 2; Acute Tox. 4; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3;	<= 100 %

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

SECTION 4: First aid measures

4.1 **Description of first-aid measures**

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

Aquatic Acute 1; Aquatic Chronic 1; H225, H302, H330, H315, H319, H335,

M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1

H400, H410

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions Take up carefully with liquid-absorbent material Dispose of properly. Clean up affected area.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

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

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as 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 please contact the supplier of approved gloves

Full contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 480 min

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 please contact the supplier of approved gloves

Splash contact Material: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 30 min

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type Filter A for vapours of organiccompounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	166 °C at 1.013 hPa
g)	Flash point	21 °C
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	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)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	Viscosity, kinematic: No data available
')	VISCOSICY	Viscosity, dynamic: No data available
s)	Explosive properties	No data available
Otł	ner safety informatio	n

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) . Contains the following stabilizer(s): butyl hydroxytoluene (BHT) (0,05 %)

10.3 Possibility of hazardous reactions

increased reactivity with: Strong oxidizing agents Strong acids strong alkalis

10.4 Conditions to avoid Warming.

warning.

- **10.5** Incompatible materials No data available
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimate Oral - 590 mg/kg (Calculation method)

LD50 Oral - Rat - male and female - 590 mg/kg (OECD Test Guideline 401)

Acute toxicity estimate Inhalation - 4 h - 1,97 mg/l (Calculation method) LC50 Inhalation - Rat - male and female - 4 h - 1,97 mg/l (OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) LD50 Intraperitoneal - Rat - 200 mg/kg

Skin corrosion/irritation

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

Serious eye damage/eye irritation

Respiratory or skin sensitization

Buehler Test - Guinea pig

Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Metabolic activation: with and without metabolic activation Result: negative

Carcinogenicity

No data available

Reproductive toxicity

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. - Respiratory system

Specific target organ toxicity - repeated exposure

Aspiration hazard

11.2 Additional Information

Repeated dose toxicity - Rat - male - Oral - 44 d - NOAEL (No observed adverse effect level) - 4 mg/kg

Repeated dose toxicity - Rat - male - inhalation (vapor) - 91 dRemarks: Subchronic toxicity

Not available

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

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Oryzias latipes (Orange-red killifish) - 4,3 mg/l - 96 h Remarks: (Lit.)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0,62 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae

static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 100 mg/l - 96 h (US-EPA)

12.2 Persistence and degradability

Biodegradability Result: - Not readily biodegradable. (OECD Test Guideline 301C)

Ratio BOD/ThBOD <= 4 %

12.3 Bioaccumulative potential

12.4 Mobility in soil

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

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

See for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECT	TION 14: T	ransport informat	ion	
14.1	UN numb ADR/RID:		IMDG: 2048	IATA: 2048
14.2	ADR/RID:	er shipping name DICYCLOPENTADIE DICYCLOPENTADIE Dicyclopentadiene		
14.3	Transpor ADR/RID:	t hazard class(es) 3	IMDG: 3	IATA: 3
14.4	Packagin ADR/RID:		IMDG: III	IATA: III
14.5	Environn ADR/RID:	n ental hazards yes	IMDG Marine pollutant: yes	IATA: no
14.6	Special p No data a	recautions for use vailable	r	

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation

National legislation

Seveso of the European Parliament and of the Council on thecontrol of major-accident hazards involving dangerous substances. : ACUTE TOXIC

: FLAMMABLE LIQUIDS

: ENVIRONMENTAL HAZARDS

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir national regulations where applicable.

Take note on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

5.

Relevant changes since previous version

2. Hazards identification

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ChemicalBull Pvt Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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