SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

SECTION 1 Chemical product and company identification

Chemical name (Chinese Name)	:	DCPD
Chemical name (English name)	:	3a,4,7,7a-tetrahydro-4,7-methanoindene
CAS No.	:	77-73-6
Product code	:	P455
Formula	:	C10H12
Synonyms	:	DCPD; Bicyclopentadiene; 1,3-Cyclopentadiene dimers; 3a,4,7,7a-Tetrahydro-4,7-methaneindene
Name of company	:	Braskem S.A.
Address	:	Rua Eteno, 1561, Polo Petroquímico de Camaçari
		CEP: 42810-000, Brasil
Tel.	:	+55 (71) 3413-3600
Email	:	productsafety@braskem.com
Emergency number(24h)	:	CHEMTREC:
		+1 703-741-5970 - International
		+(86) 4001-204937 - China
		800-968-793 - Hong Kong toll free
Recommended use	:	Polymer production

SECTION 2 Hazards identification

Emergency overview

Highly flammable liquid and vapour;Harmful if swallowed; May be fatal if swallowed and enters airways; May be harmful in contact with skin;Causes skin irritation;Causes serious eye irritation; Fatal if inhaled;May cause respiratory irritation; May cause genetic defects; May cause cancer;Suspected of damaging fertility or the unborn child; May cause damage to organs (central nervous system) through prolonged or repeated exposure; Very toxic to aquatic life; Toxic to aquatic life with long lasting effects.

GHS classification

Physical hazards	:	Flammable liquids, Category 2
Health hazards	:	Acute toxicity (Oral), Category 4
	:	Acute toxicity (Dermal), Category 5
	:	Acute toxicity (Inhalation), Category 2
	:	Skin corrosion/irritation, Category 2
	:	Serious eye damage/eye irritation, Category 2
	:	Germ cell mutagenicity, Category 1B

: Carcinogenicity, Category 1A

: Reproductive toxicity, Category 2

: Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation

: Specific target organ toxicity - Repeated exposure, Category 2

: Aspiration hazard, Category 1

Environmental hazards : Hazardous to the aquatic environment - Acute hazard, Category 1

: Hazardous to the aquatic environment - Chronic hazard, Category 2

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms (GHS CN) :

Signal word (GHS CN) : Danger.

Hazard statements (GHS CN) : H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H335 - May cause respiratory irritation

H340 - May cause genetic defects

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS CN)

Prevention precautionary statements : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P284 - [In case of inadequate ventilation] wear respiratory protection.

Response Precautionary Statements : P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - 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. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P320 - Specific treatment is urgent (see supplemental first aid instruction on this label).

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P391 - Collect spillage.

Storage precautionary statements	:	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Disposal precautionary statements	:	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Physical and chemical hazards

Highly flammable liquid and vapour

Health hazards

Harmful if swallowed

May be fatal if swallowed and enters airways

May be harmful in contact with skin

Causes skin irritation

Causes serious eye irritation

Fatal if inhaled

May cause respiratory irritation

May cause genetic defects

May cause cancer

Suspected of damaging fertility or the unborn child

May cause damage to organs (central nervous system) through prolonged or repeated exposure

Symptoms/effects after eye contact	:	Causes serious eye irritation.
Symptoms/effects after ingestion	:	Harmful if swallowed,Ingestion may cause nausea, vomiting and diarrhea
Symptoms/effects after inhalation	:	Fatal if inhaled,May cause respiratory irritation,Overexposure to vapours may result in cough,Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination
Symptoms/effects after skin contact	:	Causes skin irritation.

Environmental hazards

Very toxic to aquatic life
Toxic to aquatic life with long lasting effects

Other hazards

Handling this product may result in electrostatic accumulation. Use proper grounding procedures
Electrostatic charges may be generated during handling
Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level
Burning liquid may float on water
May spread fire

Combustion produces toxic gases
Combustion produces irritating gases

SECTION 3 Composition/information on ingredients

Product form : Substance.

Substance type : Mono-constituent

Name	CAS-No.	Concentration (%)
Dicyclopentadiene	77-73-6	≥ 82
1,3-Pentadiene	504-60-9	1.5 - 3.5
1,3-Pentadiene, (E)-	2004-70-8	1 - 2
cyclopentane	287-92-3	0.8 - 1.5
1,3-Pentadiene, (Z)-	1574-41-0	≤ 1.5
Cyclopentene	142-29-0	0.9 - 1.4
Cyclopentadiene	542-92-7	0.3 - 0.8
2-Methyl-2-butene	513-35-9	≤ 0.4
Benzene	71-43-2	≤ 0.1

Comments : Contains inhibitor.

SECTION 4 First aid measures

Emergency

First-aid measures after inhalation : Remove victim to fresh air.
Seek medical attention immediately.
Do not apply mouth-to-mouth resuscitation.
If breathing stops, give artificial respiration

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
Remove the victim away from contaminated area.
Seek immediate medical advice

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.
Get medical advice/attention.
Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Do not induce vomiting.
If swallowed, rinse mouth with water (only if the person is conscious).
Keep victim warm and rested.
Never give anything by mouth to an unconscious person.
Seek immediate medical advice

Most Important Symptoms/Effects

Symptoms/effects after eye contact	:	Causes serious eye irritation.
Symptoms/effects after ingestion	:	Harmful if swallowed. Ingestion may cause nausea, vomiting and diarrhea
Symptoms/effects after inhalation	:	Fatal if inhaled. May cause respiratory irritation. Overexposure to vapours may result in cough Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination
Symptoms/effects after skin contact	:	Causes skin irritation.

Personal Protection in First Aid and Measures

No additional information available

Notes for the doctor

Note to physician :	:	Treat symptomatically

SECTION 5 Fire fighting measures

Extinguishing media

Suitable extinguishing media	:	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2)
Unsuitable extinguishing media	:	Do not use water jet

Special hazard

Fire hazard	:	Highly flammable liquid and vapour. Remove ignition sources Heavier than air, vapours may travel long distances along ground, ignite and flash back to source May form explosive peroxides. Combustion produces irritating gases On combustion forms: Carbon monoxide
Explosion hazard	:	Flammable vapours can accumulate in head space of closed systems May form flammable/explosive vapour-air mixture

Advice for firefighters and protective measures

Firefighting instructions	:	Do not attempt to take action without suitable protective equipment Hose down area with water In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. In case of fire: stop leak if safe to do so. Cool tanks/drums with water spray/remove them into safety

Protective equipment for firefighters	:	Full protective flameproof clothing Fight fire from safe distance and protected location Wear a self contained breathing apparatus

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures	:	Evacuate area.

For non-emergency personnel

Protective equipment	:	Wear suitable protective clothing, gloves and eye/face protection For further information refer to section 8: "Exposure controls/personal protection"
Emergency procedures	:	Remove all sources of ignition Stop leak if safe to do so.

For emergency responders

Protective equipment	:	Wear suitable protective clothing For further information refer to section 8: "Exposure controls/personal protection"
Emergency procedures	:	Remove all sources of ignition Stop leaks if it can be done without personal risk Evacuate unnecessary personnel
Environmental precautions	:	Use water spray to disperse the vapours Absorb remaining liquid with sand or inert absorbent and remove to safe place Do not allow uncontrolled discharge of product into the environment Notify authorities if product enters sewers or public waters

Methods and Equipment for Containment and Cleaning up

Methods for cleaning	:	Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean up any spills as soon as possible, using an absorbent material to collect it. Do not absorb in sawdust, paper, cloth or other combustible absorbents.
For containment	:	Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel)

Prevention Measures for Secondary Accidents

Prevention Measures for Secondary Accidents	:	No additional information available

SECTION 7 Handling and storage

Handling

Precautions for safe handling	:	Use only outdoors or in a well-ventilated area. Avoid ignition sources Use only non-sparking tools.

Use grounded electrical/mechanical equipment
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work
Do not eat, drink or smoke in areas where product is used

Additional hazards when processed : Handling this product may result in electrostatic accumulation. Use proper grounding procedures

Storage

Storage conditions : Keep away from open flames, hot surfaces and sources of ignition
Store in dry, cool, well-ventilated area
Store at room temperature

The product is not subject to polymerization during storage. To prevent further polymerization Dicyclopentadiene is inhibited with 4-tert-butylcatechol (TBC)

Technical measures : Keep container closed when not in use

Keep away from sources of ignition

Material used in packaging/containers : No additional information available

Incompatible materials : Strong oxidizing agents. Reducing agents. Certain plastics, rubbers and coatings. Halogens.

Storage area : Keep away from sources of ignition

Packaging materials : Stainless steel

Carbon steel

Cylinders

Drums

SECTION 8 Exposure controls / Personal protection equipment

Occupational Exposure Limits

DICYCLOPENTADIENE (77-73-6)	
China - Occupational Exposure Limits	
Local name	二聚环戊二烯 # Dicyclopentadiene
OEL PC-TWA	25 mg/m³
Catalogue of Occupational Hazard Factors	Category 2 - Chemical Factors
Regulatory reference	GBZ 2.1-2019

Benzene (71-43-2)	
China - Occupational Exposure Limits	
Local name	苯 # Benzene
OEL PC-TWA	3 mg/m³
OEL PC-STEL	6 mg/m³
Chemical category	Skin notation, Carcinogenic to humans
OEL PC-TWA (Highly Toxic Goods)	6 mg/m³
OEL PC-STEL (Highly Toxic Goods)	10 mg/m³
Catalogue of Occupational Hazard Factors	Category 2 - Chemical Factors
Remark (CN)	皮，G1（对人致癌 (Carcinogenic to humans)）
Regulatory reference	GBZ 2.1-2019

Biological limit values

Benzene (71-43-2)	
China - BEL	
Local name	苯 # Benzene
BEL	47 μmol/mol Creatinine Parameter: S-Phenylmercapturic acid - Medium: urine - Sampling time: end of shift 100 μg/g creatinine Parameter: S-Phenylmercapturic acid - Medium: urine - Sampling time: end of shift 2.4 mmol/mol Creatinine Parameter: t,t-Muconic acid - Medium: urine - Sampling time: end of shift 3 mg/g creatinine Parameter: t,t-Muconic acid - Medium: urine - Sampling time: end of shift
Regulatory reference	GBZ 2.1-2019

Monitoring methods

No additional information available

Appropriate engineering controls : Ensure adequate ventilation
Mechanical ventilation is recommended
Use explosion-proof equipment

Personal protective equipment

Materials for protective clothing : Protective gloves made of PVC
Wear suitable protective clothing

Hand protection : Suitable material is Viton. Thickness min.: 0,7. Usage possible for max. 80 min.

Don’t reuse again, next shift.

Be aware that the choice of suitable gloves has to be made after a full chemical risk assessment. E.g. temperatures higher than ambient temperature or mixed exposure needs consultation with the manufacturer.

		For short time exposure risk (e.g. single splash) other material may be usable, also. Contact your local PPE supplier. Do not use : Butyl-rubber protective gloves
Eye protection	:	Protective goggles
Skin and body protection	:	Avoid contact with skin Avoid repeated or prolonged skin contact Remove contaminated clothing and shoes
Respiratory protection	:	In case the concentration in workplace atmosphere is higher than max. allowed concentration, use full face mask with filter cartridge. Use self-contained breathing apparatus, if concentration is unknown or higher then max. allowed for used filter type. Take care of wear time limits, especially if worn together with protection coveralls and physically hard work. Stop work and leave area, immediately, if “chemical” smell of substance occurs in the filter mask!

SECTION 9 Physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear
Colour	:	Slightly yellow
Odour	:	Pungent
pH	:	Not applicable
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	49 ° C (120.2 ° F; ASTM D86)
Flash point	:	-15 ° C (5 ° F; Closed cup; ASTM D 56)
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Vapour pressure	:	7 - 15 kPa (37.8 °C; 100.04 ° F)
Relative vapour density at 20° C	:	No data available
Relative density	:	0.9584 - 0.9598 g/cm³
Density	:	No data available
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Radioactive	:	No

SECTION 10 Stability and reactivity

Reactivity : Highly flammable liquid and vapour. Hazardous polymerization may occur if exposure to fire conditions. Can form explosive peroxides by prolonged contact with air. Attacks some forms of plastics, rubber, and coatings

Chemical stability : Stable at ambient temperature and under normal conditions of use

Possibility of hazardous reactions : Hazardous polymerization may occur if exposed to high temperature
Can form explosive peroxides by prolonged contact with air

Conditions to avoid : Avoid ignition sources. Strong oxidizing agents. Incompatible materials

Incompatible materials : Strong oxidizing agents
Strong reducing agents
Certain plastics, rubbers and coatings
Halogens

Hazardous decomposition products : Carbon oxides (CO, CO2)
Hydrocarbon substances with low molecular weight and their oxidation products
Explosive decomposition on exposure to air: peroxidation resulting in increased fire or explosion risk

Other properties : No additional information available

SECTION 11 Toxicological information

Acute toxicity

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : May be harmful in contact with skin.

Acute toxicity (inhalation) : Fatal if inhaled.

DICYCLOPENTADIENE	
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	1910 mg/m³ (Exposure time: 6 h Source: ECHA_API)

Cyclopentadiene	
LC50 Inhalation - Rat	39 mg/l

Benzene	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 8200 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	44.66 mg/l/4h

Cyclopentene	
LD50 oral rat	2140 µl/kg (Source: NLM_CIP)
LD50 dermal rabbit	1231 mg/kg (Source: ECHA_API)

LC50 Inhalation - Rat	> 22.9 mg/l/4h

cyclopentane	
LC50 Inhalation - Rat	> 25.3 mg/l/4h

2-Methyl-2-butene	
LD50 oral rat	700 mg/kg
LD50 dermal rat	> 2000 mg/kg (Source: OECD_SIDS)
LC50 Inhalation - Rat [ppm]	> 61000 ppm/4h

Skin corrosion/irritation

Skin corrosion/irritation : Causes skin irritation.

pH : Not applicable

Serious eye damage/irritation

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity

Carcinogenicity : May cause cancer.

Benzene	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens Evidence of Carcinogenicity

Reproductive toxicity

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure

STOT-repeated exposure : May cause damage to organs (central nervous system) through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard : May be fatal if swallowed and enters airways.

SECTION 12 Ecological information

Ecotoxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

DICYCLOPENTADIENE	
BCF - Fish [1]	58.9 - 384 Cyprinus carpio (Common carp)
BCF - Fish [2]	53 Lepomis macrochirus (Bluegill)

Benzene	
LC50 - Fish [1]	10.7 - 14.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	5.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
EC50 - Crustacea [1]	8.76 - 15.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	10 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC chronic fish	0.8 mg/l Test organisms (species): Pimephales promelas Duration: '32 d'
BCF - Fish [1]	3.5 - 4.4

2-Methyl-2-butene	
LC50 - Fish [1]	4.99 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)
EC50 - Crustacea [1]	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
BCF - Fish [1]	(low potential to bioaccumulate)

Persistence and degradability

DICYCLOPENTADIENE	
Persistence and degradability	Not readily biodegradable

Benzene	
Persistence and degradability	Readily biodegradable in water

Bioaccumulative potential

DICYCLOPENTADIENE	
Bioaccumulative potential	The product presents low bioaccumulative potential in aquatic organisms.
BCF - Fish [1]	See section 12.1 on ecotoxicology
BCF - Fish [2]	See section 12.1 on ecotoxicology

Benzene	
Bioaccumulative potential	not bioaccumulable
Bioconcentration factor (BCF REACH)	> 2000
BCF - Fish [1]	See section 12.1 on ecotoxicology
Partition coefficient n-octanol/water (Log Pow)	2.13 Source: CHemIDplus,IPCS

2-Methyl-2-butene

BCF - Fish [1]	See section 12.1 on ecotoxicology

Mobility in soil

DICYCLOPENTADIENE	
Ecology - soil	The product presents low bioaccumulative potential in aquatic organisms.

Benzene	
Ecology - soil	not bioaccumulable
Partition coefficient n-octanol/water (Log Pow)	2.13 Source: CHemIDplus,IPCS

Other adverse effects

Classification procedure (Ozone) : No data available

Effect on the ozone layer : No additional information available

SECTION 13 Disposal considerations

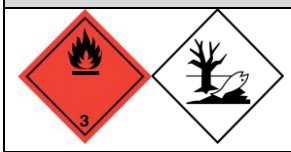
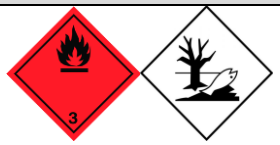
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Dispose of contaminated material at an authorized site, Do not re-use empty containers.

Regional legislation (waste) : Dispose of at authorized waste collection point

SECTION 14 Transport information

Overland transport (JT/T 617)	Transport by sea	Air transport
UN number		
3295	3295	3295
UN proper shipping name		
HYDROCARBONS, LIQUID, N.O.S. (Dicyclopentadiene)	HYDROCARBONS, LIQUID, N.O.S. (Dicyclopentadiene)	Hydrocarbons, liquid, n.o.s. (Dicyclopentadiene)
Transport document description		
UN 3295, HYDROCARBONS, LIQUID, N.O.S. (Dicyclopentadiene), Class 3, PG II, ENVIRONMENTALLY HAZARDOUS	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Dicyclopentadiene), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3295 Hydrocarbons, liquid, n.o.s. (Dicyclopentadiene), 3, II, ENVIRONMENTALLY HAZARDOUS
Transport hazard class(es)		
3	3	3

Overland transport (JT/T 617)	Transport by sea	Air transport
		
Packing group		
II.	II.	II.
Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes

Special transport precautions

MFAG-No : 130

Overland transport (JT/T 617)

- Classification code (JT/T 617) : F1.
- Limited quantities (JT/T 617) : 1L.
- Excepted quantities (JT/T 617) : E2.
- Packing instructions (JT/T 617) : P001, IBC02, R001.
- Mixed packing provisions (JT/T 617) : MP19.
- Portable tank and bulk container instructions (JT/T 617) : T7.
- Portable tank and bulk container special provisions (JT/T 617) : TP1, TP8, TP28.
- Tank codes (JT/T 617) : LGBF.
- Vehicle for tank carriage (JT/T 617) : FL.
- Transport category (JT/T 617) : 2.
- Tunnel restriction code (JT/T 617) : D/E.
- Special provisions for carriage - Operation (JT/T 617) : S2, S20.
- Hazard identification number (JT/T 617) : 33.
- Orange-coloured plate (JT/T 617) :

Transport by sea

- Limited quantities (IMDG) : 1 L.
- Excepted quantities (IMDG) : E2.

Packing instructions (IMDG)	: P001.
IBC packing instructions (IMDG)	: IBC02.
Tank instructions (IMDG)	: T7.
Tank special provisions (IMDG)	: TP1, TP8, TP28.
Stowage category (IMDG)	: B.
Properties and observations (IMDG)	: Immiscible with water.
MFAG-No	: 130

Air transport

PCA Excepted quantities (IATA)	: E2.
PCA Limited quantities (IATA)	: Y341.
PCA limited quantity max net quantity (IATA)	: 1L.
PCA packing instructions (IATA)	: 353.
PCA max net quantity (IATA)	: 5L.
CAO packing instructions (IATA)	: 364.
CAO max net quantity (IATA)	: 60L.
Special provisions (IATA)	: A3, A324.
ERG code (IATA)	: 3H.

Special precautions for users

Refer to Section 7, Handling and Storage, for special precautions which a user needs to be aware of or is required to comply with regards to transport.

Additional information: This product may be transport under nitrogen blanketing

Other information

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Product Name: DICYCLOPENTADIENE, RESIN GRADE, 81-89%

SECTION 15 Regulatory information

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances in China (IECSC) : Contains listed substance(s)
Dicyclopentadiene (CAS-No. 77-73-6)
1,3-Pentadiene (CAS-No. 504-60-9)
1,3-Cyclopentadiene (CAS-No. 542-92-7)
Benzene (CAS-No. 71-43-2)
Cyclopentene (CAS-No. 142-29-0)
Cyclopentane (CAS-No. 287-92-3)
2-Butene, 2-methyl- (CAS-No. 513-35-9)

Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State

Council)

Catalogue of Hazardous Chemicals (2015)	:	Contains Hazardous Chemical(s) Dicyclopentadiene (CAS-No. 77-73-6) 1,3-Pentadiene,inhibited (CAS-No. 504-60-9) 1,3-Cyclopentadiene (CAS-No. 542-92-7) Benzene (CAS-No. 71-43-2) Cyclopentene (CAS-No. 142-29-0) Cyclopentane (CAS-No. 287-92-3) 2-Methyl-2-butene (CAS-No. 513-35-9) Considered as Hazardous Chemical(s)
Identification of major hazard installations for dangerous chemicals (GB 18218)	:	Contains listed substance(s) benzene (CAS-No. 71-43-2)

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Catalogue for Classification of Hazardous Factors of Occupational Diseases	:	Contains listed substance(s) Dicyclopentadiene (CAS-No. 77-73-6) benzene (CAS-No. 71-43-2)
List of Highly Toxic Substances	:	Contains listed substance(s) Benzene (CAS-No. 71-43-2)

Action Plan for Prevention and Control of Water Pollution

Catalogue of Prior Controlled Chemicals	:	Contains listed substance(s) Benzene (CAS-No. 71-43-2)

Other domestic regulatory lists

Dangerous Goods List (GB 12268-2012)	:	Contains listed substance(s) Dicyclopentadiene (CAS-No. 77-73-6) BENZENE (CAS-No. 71-43-2) CYCLOPENTENE (CAS-No. 142-29-0) CYCLOPENTANE (CAS-No. 287-92-3) 2-Methyl-2-butene (CAS-No. 513-35-9)
Inventory of Hazardous Chemicals under Key Supervision	:	Contains listed substance(s) Benzene (including benzol)(CAS-No. 71-43-2)

SECTION 16 Other information

SDS CN (GB/T 17519-2013)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The

information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.