

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

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

#### 1.1 Product identifier

Trade name : Dicyclopentadiene 94%

Product code : X2340

Registration number EU : 01-2119463601-44-0000, 01-2119463601-44-0001

Synonyms : 3a,4,7,7a-Tetrahydro-4,7-methanoindene, DCPD, Tricyclo-(5,2,1,0)-3,8-decadiene

CAS-No. : 77-73-6

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

Use of the Substance/Mixture : Base chemical., Use only as a chemical intermediate.

Recommended restrictions on use : This product must not be used in applications other than the above without first seeking the advice of the supplier.  
This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

#### 1.3 Details of the supplier of the safety data sheet

Company : **Shell Chemicals Europe B.V.**  
PO Box 2334  
3000 CH Rotterdam  
Netherlands

Telephone : +31 (0)10 441 5137 / +31 (0)10 441 5191

Telefax : +31 (0)20 716 8316 / +31 (0)20 713 9230

E-mail address of person responsible for the SDS : sccmsds@shell.com

#### 1.4 Emergency telephone number

Emergency telephone number : +44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per week)  
National Poison Counselling Centre (UZEM) – 114

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification T.R. SEA No 28848

Flammable liquids, Category 2  
Acute toxicity, Category 4  
Aspiration hazard, Category 1

Acute toxicity, Category 2  
Skin irritation, Category 2  
Eye irritation, Category 2  
Specific target organ toxicity - single exposure, Category 3  
Reproductive toxicity, Category 2

Specific target organ toxicity - repeated exposure, Category 2  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 2

H225: Highly flammable liquid and vapour.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H330: Fatal if inhaled.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

H361: Suspected of damaging fertility or the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling T.R. SEA No 28848

Hazard pictograms :



Signal word : Danger

Hazard statements :

H225

PHYSICAL HAZARDS:  
Highly flammable liquid and vapour.

H302

HEALTH HAZARDS:

H304

Harmful if swallowed.  
May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H330

Fatal if inhaled.

H335

May cause respiratory irritation.

H361

Suspected of damaging fertility or the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure.

H400

ENVIRONMENTAL HAZARDS:  
Very toxic to aquatic life.

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	: <b>Prevention:</b>	
	P201	Obtain special instructions before use.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P240	Ground/bond container and receiving equipment.
	P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
	P242	Use only non-sparking tools.
	P243	Take action to prevent static discharges.
	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	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.
	<b>Response:</b>	
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P310	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.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage.
	<b>Storage:</b>	
	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P235	Keep cool.

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

### Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

May form explosive peroxides.

May form flammable/explosive vapour-air mixture.

Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Will float and can be reignited on surface water.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Dicyclopentadiene 94% Bulk, 77-73-6

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	T.R. SEA No 28848	Concentration (% w/w)
Dicyclopentadiene	77-73-6 201-052-9	Flam. Liq.2; H225 Acute Tox.4; H302 Asp. Tox.1; H304 Acute Tox.2; H330 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 Repr.2; H361 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic2; H411	>= 94

Remarks : Contains stabiliser.

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |   |
|----------------------------|---|
| General advice             | : DO NOT DELAY.<br>Keep victim calm. Obtain medical treatment immediately.  |
| Protection of first-aiders | : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.   |
| If inhaled                 | : Call emergency number for your location / facility.<br>Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to the nearest medical facility.  |
| In case of skin contact    | : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.   |
| In case of eye contact     | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>Transport to the nearest medical facility for additional treatment.  |
| If swallowed               | : Call emergency number for your location / facility.<br>If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth.<br>If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. |

#### 4.2 Most important symptoms and effects, both acute and delayed

- |          |  |
|----------|--|
| Symptoms | : Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.<br>Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. |
|----------|--|

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

Continued inhalation may result in unconsciousness and death.

Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!  
Artificial respiration and/or oxygen may be necessary.  
Call a doctor or poison control center for guidance.  
Potential for chemical pneumonitis.  
Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media : Do not use water in a jet.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Carbon monoxide may be evolved if incomplete combustion occurs.  
Will float and can be reignited on surface water.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.  
Flammable vapours may be present even at temperatures below the flash point.

### 5.3 Advice for firefighters

Special protective equipment : Proper protective equipment including chemical resistant

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

for firefighters	gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).
Specific extinguishing methods	: Standard procedure for chemical fires.
Further information	: Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water.

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Observe all relevant local and international regulations. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained. Avoid contact with skin, eyes and clothing. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Do not breathe fumes, vapour. Do not operate electrical equipment.
----------------------	---

### 6.2 Environmental precautions

Environmental precautions	: Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
---------------------------	---

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain
-------------------------	---

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely

### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet., Risk of explosion. Inform the emergency services if liquid enters surface water drains., For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet., Vapour may form an explosive mixture with air.

Local authorities should be advised if significant spillages cannot be contained.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                         |   |  |
|-------------------------|---|--|
| Technical measures      | : | Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.<br>Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.<br>Ensure that all local regulations regarding handling and storage facilities are followed.  |
| Advice on safe handling | : | Avoid inhaling vapour and/or mists.<br>Avoid contact with skin, eyes and clothing.<br>Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.<br>The vapour is heavier than air. Beware of accumulation in pits and confined spaces.<br>Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.<br>Bulk storage tanks should be diked (bunded).<br>Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.<br>Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.<br>If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.<br>Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges.<br>These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. |



# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

These activities may lead to static discharge e.g. spark formation.

Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/s until fill pipe submerged to twice its diameter, then  $\leq 7$  m/s). Avoid splash filling.

Do NOT use compressed air for filling, discharging, or handling operations.

Inhibitor levels should be maintained.

Protect against light.

Hygiene measures

: Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

Other data

: Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Must be kept inhibited during storage and shipment as material can polymerise. Vapours from tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a suitable vapour treatment system. Nitrogen blanket recommended. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable. Reacts with atmospheric oxygen. Material contains a stabilizer to inhibit oxidative colour change. Prolonged storage of the product can cause the stabiliser to lose its effectiveness. The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution.

Storage Temperature: Ambient.

Packaging material

: Suitable material: For containers, or container linings use mild steel, stainless steel.  
Unsuitable material: Copper., Copper alloys.

### 7.3 Specific end use(s)

Specific use(s)

: Please refer to section 16 and/or the annexes for the registered uses under REACH.

See additional references that provide safe handling practices for liquids that are determined to be static accumulators: American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

on Static Electricity).  
IEC/TS 60079-32-1: Electrostatic hazards, guidance

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Biological occupational exposure limits

No biological limit allocated.

### 8.2 Exposure controls

#### Engineering measures

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Firewater monitors and deluge systems are recommended.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Eye washes and showers for emergency use.

#### General Information

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

#### Personal protective equipment

Eye protection : Wear goggles for use against liquids and gas.  
Wear full face shield if splashes are likely to occur.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Viton.

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

- Incidental contact/Splash protection: Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.
- For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.
- Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Skin and body protection** : Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron. Wear antistatic and flame-retardant clothing.
- Respiratory protection** : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [Type A boiling point >65°C (149°F)]. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.
- Protective measures** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

### Environmental exposure controls

- General advice** : Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. Information on accidental release measures are to be found in section 6.

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: Pale straw-coloured liquid or yellow waxy solid.
Colour	: Data not available
Odour	: Camphor-like
Odour Threshold	: Data not available
pH	: Not applicable
Melting / freezing point	: Typical 10 - 15 °C
Boiling point/boiling range	: Typical 170 - 190 °C (1010 hPa)
Flash point	: Typical 32 °C Other information: Static-accumulating flammable liquid.
Evaporation rate	: Data not available
Flammability	
Flammability (liquids)	: Static-accumulating flammable liquid.
Lower explosion limit and upper explosion limit / flammability limit	
Upper explosion limit	: 6,3 %(V)
Lower explosion limit	: 0,8 %(V)
Vapour pressure	: 186 Pa (20 °C)
Relative vapour density	: 4,5
Relative density	: 0,965 - 0,98 (30 °C) Method: ASTM D4052
Density	: 965 - 980 kg/m3 (30 °C) Method: ASTM D4052
	975 - 989 kg/m3 (20 °C) Method: ASTM D4052
Solubility(ies)	
Water solubility	: 40 mg/l (22 °C)

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

Partition coefficient: n-octanol/water : log Pow: 3,16  
Method: Calculated value(s)

Auto-ignition temperature : 503 °C

Decomposition temperature : Data not available

Viscosity  
Viscosity, dynamic : 4 mPa.s (20 °C)  
Method: ASTM D445

Viscosity, kinematic : Typical 4,5 mm<sup>2</sup>/s (20 °C)  
Method: ASTM D445

Typical 2,8 mm<sup>2</sup>/s (40 °C)  
Method: ASTM D445

Explosive properties : Not applicable  
Oxidizing properties : Data not available

### 9.2 Other information

Surface tension : 30 mN/m, 37,8 °C  
28 mN/m, 71,1 °C

Conductivity : Low conductivity: < 100 pS/m, The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid

Molecular weight : 132,2 g/mol

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Prolonged exposure to air may lead to peroxide formation.  
Reacts with strong oxidising agents.

### 10.2 Chemical stability

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution.  
Reacts violently with:  
Nitric, sulphuric and chlorosulphuric acids.  
Oxidises on contact with air to form unstable peroxides.  
Polymerisation may occur at elevated temperatures.  
Normally stable under ambient conditions and if properly inhibited.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Normally stable under ambient conditions and if properly inhibited.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames, and sparks.  
Exposure to air.  
Exposure to sunlight.  
In certain circumstances product can ignite due to static electricity.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.  
Strong acids.  
Strong bases.  
Copper alloys

### 10.6 Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

Information on likely routes of exposure : Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

### Acute toxicity

#### Components:

##### **Dicyclopentadiene:**

Acute oral toxicity : LD 50 (Rat, male and female): >300-<=2000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Harmful if swallowed.

Acute inhalation toxicity : LC 50 (Rat, male and female): > 0.5 - <= 2 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Remarks: Fatal if inhaled.

Acute dermal toxicity : LD 50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

#### Components:

##### **Dicyclopentadiene:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Remarks: Causes skin irritation.

### Serious eye damage/eye irritation

#### Components:

##### **Dicyclopentadiene:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Remarks: Causes serious eye irritation.

### Respiratory or skin sensitisation

#### Components:

##### **Dicyclopentadiene:**

Species: Guinea pig  
Method: OECD Test Guideline 406  
Remarks: Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

### Germ cell mutagenicity

#### Components:

#### **Dicyclopentadiene:**

- Genotoxicity in vitro
- : Method: OECD Test Guideline 471  
Remarks: Based on available data, the classification criteria are not met.
  - : Method: Acceptable non-standard method.  
Remarks: Based on available data, the classification criteria are not met.
  - : Method: OECD Test Guideline 476  
Remarks: Based on available data, the classification criteria are not met.
- Genotoxicity in vivo
- : Species: Mouse  
Method: OECD Test Guideline 474  
Remarks: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity- Assessment
- : This product does not meet the criteria for classification in categories 1A/1B.

### Carcinogenicity

#### Components:

#### **Dicyclopentadiene:**

- Carcinogenicity - Assessment
- : This product does not meet the criteria for classification in categories 1A/1B.

Material	SEA Carcinogenicity Classification
Dicyclopentadiene	No carcinogenicity classification.

### Reproductive toxicity

#### Components:

#### **Dicyclopentadiene:**

- Effects on fertility
- : Species: Rat  
Sex: male and female  
Application Route: Oral  
  
Method: Equivalent or similar to OECD Test Guideline 416  
Remarks: Suspected of damaging fertility or the unborn child.
- Effects on foetal development
- : Species: Rat, female  
Application Route: Oral



# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

Method: Other guideline method.

Remarks: Suspected of damaging fertility or the unborn child.

Reproductive toxicity - Assessment

: This product does not meet the criteria for classification in categories 1A/1B.

### STOT - single exposure

#### Components:

##### **Dicyclopentadiene:**

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Remarks: May cause respiratory irritation.

### STOT - repeated exposure

#### Components:

##### **Dicyclopentadiene:**

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

#### Components:

##### **Dicyclopentadiene:**

Species: Rat, male and female

Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline 422

Target Organs: No specific target organs noted

Species: Rat, male and female

Application Route: Inhalation

Test atmosphere: vapour

Method: Test(s) equivalent or similar to OECD Test Guideline 413

Target Organs: No specific target organs noted

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 408

Symptoms: Tremors

### Aspiration toxicity

#### Components:

##### **Dicyclopentadiene:**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

can be fatal.

### Further information

#### Components:

#### **Dicyclopentadiene:**

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **Dicyclopentadiene:**

- |  |  |
|--|--|
| Toxicity to fish (Acute toxicity)                                      | : LC50 ( <i>Oryzias latipes</i> (Japanese medaka)): 15,7 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Harmful<br>LL/EL/IL50 >10 <= 100 mg/l  |
| Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)   | : EC50 ( <i>Daphnia magna</i> (Water flea)): 0,62 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: Toxic<br>LL/EL/IL50 >10 <= 100 mg/l   |
| Toxicity to algae (Acute toxicity)                                     | : Remarks: Harmful<br>LL/EL/IL50 >10 <= 100 mg/l   |
| M-Factor (Short-term (acute) aquatic hazard)                           | : 1  |
| Toxicity to bacteria (Acute toxicity)                                  | : EC10 ( <i>Pseudomonas putida</i> ): 2,2 mg/l<br>Method: Other guideline method.<br>Remarks: Toxic<br>LL/EL/IL50 > 1 <= 10 mg/l   |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC: 0,98 mg/l<br>Exposure time: 14 d<br>Species: <i>Lepomis macrochirus</i> (Bluegill sunfish)<br>Method: Test(s) equivalent or similar to OECD Test Guideline 204<br>Remarks: NOEC/NOEL/EL10 > 0.1 - <=1.0 mg/l |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 0,574 mg/l<br>Exposure time: 21 d<br>Species: <i>Daphnia</i> sp. (water flea)  |

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

Method: Based on quantitative structure-activity relationship (QSAR) modelling

### 12.2 Persistence and degradability

#### Components:

##### **Dicyclopentadiene:**

Biodegradability : Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Not readily biodegradable.  
Oxidises rapidly by photo-chemical reactions in air.

### 12.3 Bioaccumulative potential

#### Components:

##### **Dicyclopentadiene:**

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

### 12.4 Mobility in soil

#### Components:

##### **Dicyclopentadiene:**

Mobility : Remarks: Floats on water.

### 12.5 Results of PBT and vPvB assessment

#### Components:

##### **Dicyclopentadiene:**

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

### 12.6 Other adverse effects

#### Product:

Further information : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Components:

##### **Dicyclopentadiene:**

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
- Do not dispose into the environment, in drains or in water courses.  
Waste product should not be allowed to contaminate soil or water.
- Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.
- Contaminated packaging : Packing: Emptying: Place the package upside down, and tilt slightly, circa 10 degrees, to enable drainage in such a way that the lowest part of the package is at the exit orifice. On some packing an extra hole must be made. Drainage should be carried out at room temperature (at least 15 °C). Wait until the package is drip dry. Do not close package after draining. Please note the risks connected with emptying package and containers with flammable liquids. Emptied package should be ventilated in a safe place away from sparks and fire. Residues may be an explosion risk. Do not puncture, cut or weld in non-cleaned package, containers or drums.

---

## SECTION 14: Transport information

### 14.1 UN number

- ADR : UN 2048  
RID : UN 2048  
IMDG : UN 2048  
IATA : UN 2048

### 14.2 UN proper shipping name

- ADR : DICYCLOPENTADIENE  
RID : DICYCLOPENTADIENE

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

**IMDG** : DICYCLOPENTADIENE

**IATA** : DICYCLOPENTADIENE

### 14.3 Transport hazard class(es)

**ADR** : 3

**RID** : 3

**IMDG** : 3

**IATA** : 3

### 14.4 Packing group

**ADR**

Packing group : III

Classification Code : F1

Hazard Identification Number : 30

Labels : 3

**RID**

Packing group : III

Classification Code : F1

Hazard Identification Number : 30

Labels : 3

**IMDG**

Packing group : III

Labels : 3

**IATA**

Packing group : III

Labels : 3

### 14.5 Environmental hazards

**ADR**

Environmentally hazardous : yes

**RID**

Environmentally hazardous : yes

**IMDG**

Marine pollutant : yes

### 14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

### 14.7 Maritime transport in bulk according to IMO instruments

Pollution category : Y

Ship type : 2

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

Product name : 1,3-Cyclopentadiene dimer (molten)

**Additional Information** : This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen enriched atmospheres displaces available oxygen which may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a confined space entry.

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

---

## SECTION 15: Regulatory information

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

KKDIK (30105 (Bis)) - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex 17) : Conditions of restriction for the following entries should be considered: Entry number 3

Other regulations : The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Regulations on the health and safety precautions for chemicals in the workplace. Regulations on the fire protection of buildings. Regulations on the prevention of industrial accidents and the reduction of their effects.

#### The components of this product are reported in the following inventories:

AIIC : Listed

CA. DSL : Listed

IECSC : Listed

ENCS : Listed

KECI : Listed

NZIoC : Listed

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

PICCS : Listed

TSCA : Listed

ENCS : Listed

TCSI : Listed

### 15.2 Chemical safety assessment.

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL -

# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

---

Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Prepared by

Name : Eren Aktas  
Certified Qualification date : 15.05.2024  
Certificate number : TÜV/11.241.01  
Expiry date : 15.05.2029

### Further information

Training advice : Provide adequate information, instruction and training for operators.  
Other information : A vertical bar (|) in the left margin indicates an amendment from the previous version.  
Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

TR / EN



# SAFETY DATA SHEET.

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105

## Dicyclopentadiene 94%

Revision Date.:  
09.12.2025

Version 2.2

SDS Number:  
800001009639

Initial release date:  
2015/05/29

### Exposure Scenario - Worker

<b>300000000242</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
<b>Amounts Used</b>	
Annual site tonnage (tonnes/year):	4,0E+03
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Treat air emission to provide a typical removal efficiency of (%)	80
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
<b>Section 3.2 -Environment</b>	
<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
<b>Section 4.2 -Environment</b>	