# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Product name : 2,2-Bis(4-hydroxyphenyl)hexafluoropropane
CAS No. : 1478-61-1

**Manufacturer or supplier's details**

Company : Heynova (Shanghai) New Material Technology CO., Ltd
Address : Building 3, No. 690 Bibo Road, Pudong New Area, Shanghai, China

Telephone : +86-178-2110-2608
E-mail address : info@heynovachem.com

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

**Appearance** : Solid form
**Color** : white - gray

May be harmful if swallowed. Causes serious eye damage. May damage fertility or the unborn child. May cause damage to organs (Prostate, Testes) through prolonged or repeated exposure. Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**GHS Classification**

Acute toxicity (Oral) : Category 5

Serious eye damage/eye irritation : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity - repeated exposure : Category 2 (Prostate, Testes)

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 1

**GHS label elements**

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H303 May be harmful if swallowed.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs (Prostate, Testes) through prolonged or repeated exposure.
H401 Toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Physical and chemical hazards**

Not classified based on available information.

**Health hazards**

May be harmful if swallowed. Causes serious eye damage. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

**Environmental hazards**

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

**Other hazards which do not result in classification**

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

**Components**

| Chemical name | CAS RN | Concentration (% w/w) |
|---|---|---|
| 2,2-Bis(4-hydroxyphenyl)hexafluoropropane | 1478-61-1 | >= 98 -<= 100 |

## 4. FIRST AID MEASURES

If inhaled : Remove person to fresh air and keep comfortable for breathing.
Get medical advice/ attention.

In case of skin contact : Take off all contaminated clothing immediately.
If on skin, rinse well with water.
Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water.
If easy to do, remove contact lens, if worn.
Immediately call a POISON CENTER or doctor/ physician.

If swallowed : Get medical advice/ attention.
Rinse mouth.

Most important symptoms and effects, both acute and delayed : May be harmful if swallowed.
Causes serious eye damage.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

## 5. FIRE-FIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Dry powder, Foam, Water spray, Carbon dioxide (CO2) |
| Specific hazards during fire fighting | : | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Immediately evacuate personnel to safe areas.<br>Remove undamaged containers from fire area if it is safe to do so. |
| Special protective equipment for fire-fighters | : | Use personal protective equipment. |

## 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Wear suitable protective equipment.<br>Keep people away from and upwind of spill/leak.<br>Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. |
| Environmental precautions | : | Should not be released into the environment. |
| Methods and materials for containment and cleaning up | : | Pick up and arrange disposal without creating dust. |

## 7. HANDLING AND STORAGE

**Handling**

| | | |
|---|---|---|
| Technical measures | : | Prevent dispersion of dust. |
| Local/Total ventilation | : | Ensure adequate ventilation.<br>Handle product only in closed system or provide appropriate exhaust ventilation at machinery.<br>Use a local exhaust ventilation. |
| Advice on safe handling | : | Avoid contact with skin, eyes and clothing.<br>Wear personal protective equipment.<br>Wash hands and face thoroughly after handling. |
| Avoidance of contact | : | Oxidizing agents |

**Storage**

| | | |
|---|---|---|
| Conditions for safe storage | : | Keep container tightly closed.<br>Store in a cool and shaded area.<br>Store locked up. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

| | | |
|---|---|---|
| **Engineering measures** | : | Install a closed system or local exhaust.<br>Also install safety shower and eye bath. |

**Personal protective equipment**

| | | |
|---|---|---|
| Respiratory protection | : | Dustproof gas mask<br>Self-contained breathing apparatus |
| Eye/face protection | : | Safety glasses<br>Safety goggles<br>Face-shield |
| Skin and body protection | : | Impervious protective clothing |
| Hand protection | : | Impervious gloves |

*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | solid |
| Color | : | white - gray |
| Odor | : | No data available |
| Odor Threshold | : | No data available |
| pH | : | No data available |
| Melting point/freezing point | : | 161 °C |
| Boiling point/boiling range | : | No data available |
| Flash point | : | No data available |
| Evaporation rate | : | No data available |
| Flammability | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapor pressure | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | 222 mg/l insoluble (20 °C) |
| Solubility in other solvents | : | very soluble<br>Solvent: Alcohol<br><br>very soluble<br>Solvent: Acetone<br><br>very soluble<br>Solvent: Toluene |
| Partition coefficient: n-octanol/water (log value) | : | No data available |
| Autoignition temperature | : | 510 °C |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Molecular weight | : | 336.23 g/mol |

## 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No data available |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | None under normal processing. |
| Incompatible materials | : | Oxidizing agents |
| Hazardous decomposition products | : | Carbon monoxide, Carbon dioxide (CO2), Hydrogen fluoride |

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

May be harmful if swallowed.

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Assessment: The component/mixture is minimally toxic after single ingestion. |

**Components:**

**2,2-Bis(4-hydroxyphenyl)hexafluoropropane:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): 3,400 mg/kg<br>Assessment: The component/mixture is minimally toxic after single ingestion. |

**Skin corrosion/irritation**

Not classified due to lack of data.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

| | | |
|---|---|---|
| Result | : | Irreversible effects on the eye |

**Components:**

**2,2-Bis(4-hydroxyphenyl)hexafluoropropane:**

| | | |
|---|---|---|
| Result | : | Irreversible effects on the eye |

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified due to lack of data.

**Respiratory sensitization**

Not classified due to lack of data.

**Germ cell mutagenicity**

Not classified due to lack of data.

**Carcinogenicity**

Not classified due to lack of data.

**Reproductive toxicity**

May damage fertility or the unborn child.

**Product:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | Presumed human reproductive toxicant |

**Components:**

**2,2-Bis(4-hydroxyphenyl)hexafluoropropane:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | Presumed human reproductive toxicant |

**STOT-single exposure**

Not classified due to lack of data.

**STOT-repeated exposure**

May cause damage to organs (Prostate, Testes) through prolonged or repeated exposure.

**Product:**

| | | |
|---|---|---|
| Target Organs | : | Prostate, Testes |
| Assessment | : | May cause damage to organs through prolonged or repeated exposure. |

**Components:**

**2,2-Bis(4-hydroxyphenyl)hexafluoropropane:**

| | | |
|---|---|---|
| Target Organs | : | Prostate, Testes |
| Assessment | : | May cause damage to organs through prolonged or repeated exposure. |

| | | |
|---|---|---|
| **Repeated dose toxicity** | : | No information available. |

**Aspiration toxicity**

Not classified due to lack of data.

| | | |
|---|---|---|
| **RTECS No.** | : | SN2780000 (2,2-Bis(4-hydroxyphenyl)hexafluoropropane) |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Product:**

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Toxic to aquatic life. |
| Chronic aquatic toxicity | : | Very toxic to aquatic life with long lasting effects. |

**Components:**

**2,2-Bis(4-hydroxyphenyl)hexafluoropropane:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): 4.2 mg/l<br>Exposure time: 48 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 2.7 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.808 mg/l<br>Exposure time: 72 h<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 0.0522 mg/l<br>Exposure time: 72 h |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Danio rerio (zebra fish)): 0.05 mg/l |

Exposure time: 28 d

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.23 mg/l<br>Exposure time: 21 d |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Toxic to aquatic life. |
| Chronic aquatic toxicity | : | Very toxic to aquatic life with long lasting effects. |

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

| | | |
|---|---|---|
| Waste from residues | : | Disposal in accordance with local and national regulations.<br>Entrust disposal to a licensed waste disposal company. |
| Contaminated packaging | : | Disposal in accordance with local and national regulations.<br>Before disposal of used container, remove contents completely. |

## 14. TRANSPORT INFORMATION

**International Regulations**

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 3077 |
| Proper shipping name | : | Environmentally hazardous substance, solid, n.o.s. |
| Class | : | 9 |
| Packing group | : | III |

**IMDG-Code**

| | | |
|---|---|---|
| UN number | : | UN 3077 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Class | : | 9 |
| Packing group | : | III |
| EmS Code | : | F-A, S-F |

**Domestic regulation**

**GB 6944/12268**

| | | |
|---|---|---|
| UN number | : | UN 3077 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Class | : | 9 |
| Packing group | : | III |

## 15. REGULATORY INFORMATION

**The ingredients of this product are reported in the following inventories:**

| | | |
|---|---|---|
| CH BAGREG | : | On the inventory, or in compliance with the inventory |
| TSCA | : | All substances listed as active on the TSCA inventory |
| AIIC | : | On the inventory, or in compliance with the inventory |
| DSL | : | All components of this product are on the Canadian DSL |
| ENCS | : | On the inventory, or in compliance with the inventory |
| ISHL | : | On the inventory, or in compliance with the inventory |
| KECI | : | On the inventory, or in compliance with the inventory |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or in compliance with the inventory |
| NZIoC | : | Not in compliance with the inventory |
| TECI | : | On the inventory, or in compliance with the inventory |

## 16. OTHER INFORMATION

| | | |
|---|---|---|
| Revision Date | : | 2025/01/20 |
| Date format | : | yyyy/mm/dd |

**Disclaimer**

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.