



MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Date of issue: 03/11/2013

Version 1.0

SECTION 1. Identification

Product identifier

Product number 803546
Product name 2,2-Bis(4-hydroxyphenyl) propane for synthesis

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

Identified uses Chemical for synthesis

Details of the supplier of the safety data sheet

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+1-703-527-3887 CHEMTREC (International)
24 Hours/day; 7 Days/week

SECTION 2. Hazards identification

GHS Classification

Reproductive toxicity, Category 2, H361f
Specific target organ systemic toxicity - single exposure, Category 3, H335
Serious eye damage, Category 1, H318
Skin sensitization, Category 1, H317
For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word
Danger

Hazard Statements

H317 May cause an allergic skin reaction.

MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 803546
Product name 2,2-Bis(4-hydroxyphenyl) propane for synthesis

Version 1.0

H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.

Precautionary Statements

P281 Use personal protective equipment as required.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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.

OSHA Hazards

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Formula	[4-(HO)C ₆ H ₄] ₂ C(CH ₃) ₂	C ₁₅ H ₁₆ O ₂ (Hill)
CAS-No.	80-05-7	
Molar mass	228.29 g/mol	

Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

4,4'-isopropylidenediphenol (>= 90 % - <= 100 %)

80-05-7

SECTION 4. First aid measures

Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing. Get medical attention.

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

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

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation and corrosion, irritant effects, Allergic reactions, Cough, Shortness of breath, respiratory arrest, Drowsiness, Dizziness, Unconsciousness, agitation, Headache, CNS disorders

MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 803546
Product name 2,2-Bis(4-hydroxyphenyl) propane for synthesis

Version 1.0

Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO₂), Foam, Dry powder

Unsuitable extinguishing media

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

Special hazards arising from the substance or mixture

Combustible material

Vapors are heavier than air and may spread along floors.

Risk of dust explosion.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

Advice for firefighters

Special protective equipment for fire-fighters

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

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

Do not empty into drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

MATERIAL SAFETY DATA SHEET
according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 803546
Product name 2,2-Bis(4-hydroxyphenyl) propane for synthesis

Version 1.0

Store at +15°C to +25°C (+59°F to +77°F).

SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Contains no substances with occupational exposure limit values.

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection

Tightly fitting safety goggles

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protective equipment:

protective clothing

Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9. Physical and chemical properties

Physical state	scales
Color	white
Odor	phenol-like
Odor Threshold	No information available.
pH	6.4
Melting point	155 °C
Boiling point/boiling range	428 °F (220 °C) at 5 hPa
Flash point	441 °F (227 °C) Method: DIN 51758

MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Version 1.0

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Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	0.86 hPa at 374 °F (190 °C)
Relative vapor density	No information available.
Relative density	1.19 g/cm ³ at 77 °F (25 °C)
Water solubility	0.12 g/l at 77 °F (25 °C)
Partition coefficient: n-octanol/water	log Pow: 3.32 (experimental) (Lit.) A remarkable bioaccumulation potential is expected (log Po/w >3).
Autoignition temperature	No information available.
Decomposition temperature	> 500 °F (> 260 °C)
Viscosity, dynamic	No information available.
Explosive properties	No information available.
Ignition temperature	950 °F (510 °C)
Bulk density	600 kg/m ³

SECTION 10. Stability and reactivity

Reactivity

Risk of dust explosion.
Forms explosive mixtures with air on intense heating.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents, Bases, Acid anhydrides, acid halides

MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

803546

Version 1.0

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2,2-Bis(4-hydroxyphenyl) propane for synthesis

Conditions to avoid

Strong heating.

Incompatible materials

no information available

Hazardous decomposition products

no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact, Ingestion

Acute oral toxicity

LDLO rat: 2,500 mg/kg (RTECS)

LD50 rat: 3,250 mg/kg (RTECS)

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract

Irritating to respiratory system.

Acute dermal toxicity

LD50 rabbit: 3,000 mg/kg
(IUCLID)

absorption

Eye irritation

rabbit

Result: Eye irritation
(RTECS)

Causes serious eye damage.

Sensitization

Human experience

Result: positive
(External MSDS)

May cause an allergic skin reaction.

Genotoxicity in vivo

Mutagenicity (mammal cell test):

Result: negative
(National Toxicology Program)

Mutagenicity (mammal cell test): chromosome aberration.

Result: positive
(National Toxicology Program)

MATERIAL SAFETY DATA SHEET

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Product number 803546
Product name 2,2-Bis(4-hydroxyphenyl) propane for synthesis

Version 1.0

CMR effects

Teratogenicity:

Suspected of damaging fertility.

Reproductive toxicity:

Suspected of damaging fertility.

Specific target organ systemic toxicity - single exposure

May cause respiratory irritation.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Further information

Systemic effects:

Headache, Dizziness, Drowsiness, agitation, CNS disorders, Unconsciousness, respiratory arrest

Damage to:

Kidney

Further data:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Ecotoxicity

Toxicity to fish

LC50 Pimephales promelas (fathead minnow): 4.6 mg/l; 96 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

NOEC Daphnia magna (Water flea): > 3.146 mg/l; 21 d (External MSDS)

EC50 Daphnia magna (Water flea): 3.90 mg/l; 48 h (IUCLID)

MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 803546
Product name 2,2-Bis(4-hydroxyphenyl) propane for synthesis

Version 1.0

Toxicity to algae

IC50 Pseudokirchneriella subcapitata (green algae): 2.70 mg/l; 96 h (ECOTOX Database)

Toxicity to bacteria

EC50 activated sludge: 58.4 mg/l; 3 h (IUCLID)

Persistence and degradability

Biodegradability

87 - 95 %; 30 d

OECD Test Guideline 302A

Easily eliminable.

93.1 %; 28 d

OECD Test Guideline 301F

Readily biodegradable.

Chemical Oxygen Demand (COD)

36 mg/g

(IUCLID)

Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: 3.32

(experimental)

(Lit.)

A remarkable bioaccumulation potential is expected (log Po/w >3).

Mobility in soil

No information available.

Other adverse effects

Additional ecological information

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

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SECTION 15. Regulatory information

United States of America

OSHA Hazards

Corrosive to eyes
Skin sensitizer
Respiratory irritant
Reproductive hazard

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

SARA 311/312 Hazards

Acute Health Hazard
Chronic Health Hazard

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

4,4'-isopropylidenediphenol 80-05-7

SARA 302

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

DEA List I

Not listed

DEA List II

Not listed

Massachusetts Right To Know

Ingredients

4,4'-isopropylidenediphenol

Pennsylvania Right To Know

Ingredients

4,4'-isopropylidenediphenol

New Jersey Right To Know

Ingredients

4,4'-isopropylidenediphenol

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Version 1.0

Notification status

TSCA: On TSCA Inventory

DSL: All components of this product are on the Canadian DSL.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

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

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Date of issue:03/11/2013

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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