

**MATERIAL SAFETY DATA SHEET**

MSDS No.

M-02

BISPHENOL-A

Effective From

14/05/2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**· Trade name: Bisphenol A (BPA) ·

Synonyms:

4,4'-(propane-2,2-diyl)diphenol; p,p'-isopropylidenebisphenol; 2,2-bis(4-hydroxyphenyl)propane

Registration number

01-2119457856-23

(If registration number(s) is provided, please see Registration Number Disclaimer in section 16 for more info on REACH compliance)

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

Identified/Recommended uses: Chemical for synthesis Raw Material for:

Polycarbonate

Epoxy resin

Fungicide

1.3 Details of the supplier of the safety data sheet ·

Manufacturer/Supplier:

BloomchemAG BV

Sint-Antoniusstraat 16 b1 B-2400,

Mol, Belgium

REACH Information:

Appointed Only Representative (OR):

CCD (Germany) GmbH

Berliner Allee 55

40212 Duesseldorf GERMANY

1.4 Emergency telephone number:

3E Global Incident Response Hotline 24h (Access Code 336088):

Europe: +1 760 476 3962

Great Britain: +44 20 35147487

United Kingdom: +44 8 08 189 0979

Non-Region Specific: +1 760 476 3971

For the emergency telephone number of your local emergency response advisory body, please contact us at for the latest SDS in your local language.

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture:**

Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1H318 Causes serious eye damage.

Skin Sens. 1 H317May cause an allergic skin reaction.

Repr. 1B H360F May damage fertility.

STOT SE 3 H335May cause respiratory irritation.

Aquatic Acute 1 H400Very toxic to aquatic life.

Aquatic Chronic 1 H410Very toxic to aquatic life with long lasting effects.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

EU
(Contd. of page 1)

Hazard pictograms:



GHS05 GHS07 GHS08 GHS09

Signal word:

Danger · Hazard

statements:

Causes serious eye damage.

May cause an allergic skin reaction.

May damage fertility.

May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazard:

Risk of dust explosion.

May form combustible dust concentrations in air.

Results of PBT and vPvB assessment

This substance/all substances present in the mixture does not meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with Annex XIII to Regulation (EC) No 1907/2006.

· Determination of endocrine-disrupting properties

80-05-7 | bisphenol A

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· M-factor M (acute) = 1, M (chronic) = 10

· Dangerous Components:

CAS: 80-05-7	bisphenol A	>99%
EINECS: 201-245-8	Repr. 1B, H360F; Eye Dam. 1, H318; Aquatic Acute 1, H400;	
Index number: 604-030-00-0	Aquatic Chronic 1, H410; Skin Sens. 1, H317; STOT SE 3, H335	
· SVHC		
80-05-7 bisphenol A		

SECTION 4: First aid measures

4.1 Description of first aid measures ·

General information:

Personal protection for the First Aider.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Take off immediately all contaminated clothing.

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Call a doctor immediately.

After swallowing:

Do not induce vomiting unless directed to do so by medical personnel.

Call for a doctor immediately.

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

Irritant effects

Allergic reactions

Coughing

Dizziness

4.3 Indication of any immediate medical attention and special treatment needed

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: No information available.

5.2 Special hazards arising from the substance or mixture

When suspended in air, dust can pose an explosion hazard.

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

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

Additional information

Do not inhale explosion gases or combustion gases.

Avoid contact with skin, eye, and clothing.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

If possible, stop flow of product. Ensure adequate ventilation. Avoid formation of dust.

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

Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Pick up and arrange disposal without creating dust.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required.

Do not get in eyes, on skin, or on clothing.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Provide suction extractors if dust is formed.

Do not permit dust to accumulate.

Any unavoidable deposit of dust must be regularly removed.

Information about fire - and explosion protection:

Normal measures for preventive fire protection.

When suspended in air, dust can pose an explosion hazard.

Avoid dust deposit, remove dust regularly.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool location.

Store containers in location free from fire risk and away from sources of heat and ignition.

Shelf Life:

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

Storage class:

Storage class (TRGS 510) :

11 - Combustible Solids

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

80-05-7 bisphenol A

BOELV (EU)	Long-term value: 2 mg/m ³ inhalable fraction
IOELV (EU)	Long-term value: 2 mg/m ³ inhalable fraction
AGW (Germany)	Long-term value: 5 E mg/m ³ 1(I);DFG, EU, Y
WEL (Great Britain)	Long-term value: 2 mg/m ³

Ingredients with biological limit values:

The product does not contain any relevant quantities of materials with biological limited values that have to be monitored.

Derived No Effect Levels (DNELs):

Workers:

●Data for Component: 4,4'-isopropylidenediphenol (CAS No.: 80-05-7)

DNEL (inhalation, systemic effects, long term exposure): 2 mg/m³

DNEL (inhalation, systemic effects, acute/short term exposure): 2 mg/m³

DNEL (inhalation, local effects, long term exposure): 2 mg/m³
DNEL (inhalation, local effects, acute/short term exposure): 2 mg/m³
DNEL (dermal, systemic effects, long term exposure): 0.031 mg/kg bw/day; AF=12.5
DNEL (dermal, systemic effects, acute/short term exposure): 0.031 mg/kg bw/day

Consumers:

- Data for Component: 4,4'-isopropylidenediphenol (CAS No.: 80-05-7)
DNEL (inhalation, systemic effects, long term exposure): 1 mg/m³
DNEL (inhalation, systemic effects, acute/short term exposure): 1 mg/m³ DNEL
(inhalation, local effects, long term exposure): 1 mg/m³
DNEL (inhalation, local effects, acute/short term exposure): 1 mg/m³
DNEL (dermal, systemic effects, long term exposure): 0.002 mg/kg bw/day; AF=150
DNEL (dermal, systemic effects, acute/short term exposure): 0.002 mg/kg bw/day
DNEL (oral, systemic effects, long term exposure): 0.004 mg/kg bw/day; AF=150
DNEL (oral, systemic effects, acute/short term exposure): 0.004 mg/kg bw/day

Predicted No Effect Concentrations (PNEC):

- Data for Component: 4,4'-isopropylidenediphenol (CAS No.: 80-05-7)
PNEC aqua (freshwater): 0.018 mg/L; AF=1
PNEC freshwater (intermittent releases): 0.011 mg/L
PNEC aqua (marine water): 0.018 mg/L; AF=1
PNEC STP: 320 mg/L; AF=1
PNEC sediment (freshwater): 1.2 mg/kg sediment dw; AF=10
PNEC sediment (marine water): 0.24 mg/kg sediment dw; AF=50
PNEC soil: 3.7 mg/kg soil dw; AF=10

Information on monitoring procedures:

Reference should be made to monitoring standards, such as the following: “BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.”

8.2 Exposure controls

Appropriate engineering controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines.

Provide appropriate exhaust ventilation at places where dust is formed.

If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Required when dusts are generated.

Short term filter device:

Filter A/P2

Hand protection



Protective gloves

The selected protective gloves have to satisfy the specifications of standard EN 374 or its equivalent. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

Ethyl vinyl alcohol laminate (EVAL)

Nitrile rubber, NBR

PE gloves

Recommended thickness of the material: ≥ 0.35 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material Break

through time: > 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection



Safety glasses with side shields conforming to EN166, ANSI 87.1-2010, or equivalent.

- Body protection:

Protective work clothing

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- Environmental exposure controls No further relevant information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties ·

General Information

Form:	Prills
Physical state	Solid
Colour:	White
Odour:	Phenol-like
Odour threshold:	Not determined.
Melting point/freezing point:	156-157 °C
Boiling point or initial boiling point and boiling range	220/5 mbar °C
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	227 °C (Closed Cup @ 760 mm HG)
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Not applicable.
Kinematic viscosity	
Solubility water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	3.32 log POW
Vapour pressure at 170 °C:	0.27 hPa
Density at 25 °C:	1.195 g/cm ³ ·
Relative density	Not determined.
Relative vapour density	Not determined.
Particle characteristics	Not applicable.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: When properly handled and stored, no dangerous reaction is known. ·

10.2 Chemical stability: This product is stable under prescribed use and storage.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

Risk of dust explosion if enriched with fine dust in the presence of air.

10.4 Conditions to avoid: Protect from heat. Keep ignition sources away. ·

10.5 Incompatible materials:

Strong oxidizing agents

Strong bases Acids.

10.6 Hazardous decomposition products:

Phenol

Carbon monoxide (CO) and carbon dioxide (CO₂)

Decomposition products depend upon temperature, air supply and the presence of other materials.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 ·

Acute toxicity Not classified based on available data.

Skin corrosion/irritation:

Not classified based on available data.

Rabbit: not irritating (OECD Test Guideline 404) ·

Serious eye damage/eye irritation:

Causes serious eye damage.

Rabbit: severe eye irritation (OECD 405)

Respiratory or skin sensitization: May cause an allergic skin reaction. ·

Germ Cell Mutagenicity: Not classified based on available data.

Carcinogenicity:

Not classified based on available data.

No increase in the incidence of tumors.

Mouse (oral, long-term exposure): negative (OECD Guideline N/A) ·

Reproductive Toxicity:

May damage fertility.

In experiment performed on rats, the following organ(s) was affected:

Ovaries

Male rat's reproductive tract

Specific Target Organ Toxicity - Single Exposure (STOT SE):

May cause respiratory irritation.

In experiment performed on rats, the following organ(s) was affected: Respiratory tract

Specific Target Organ Toxicity - Repeated Exposure (STOT RE): Not classified based on available data. · Aspiration Hazard:

Not classified based on available data.

Based on physical properties, not likely to be an aspiration hazard.

(Contd. on page 8)

EU
(Contd. of page 7)

11.2 Information on other hazards

Endocrine disrupting properties

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

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EC50/96h (static)	1.1 mg/l (algae) (EPA 560/6-82-002) 1.1 mg/l (invertebrate)
LC50/96h	4.6 mg/l (fish) (OECD 203)
NOEC	0.066 mg/l (fish) (116d, EPA OPPTS 850.1500) 0.025 mg/l (invertebrate) (328d)

12.2 Persistence and degradability

• Data for Component: 4,4'-isopropylidenediphenol (CAS No.: 80-05-7)

Degradation: 74.7~81.4% (28d; OECD 301F)

Biodegradation in water: readily biodegradable

12.3 Bioaccumulative potential

• Data for Component: 4,4'-isopropylidenediphenol (CAS No.: 80-05-7)

Bioconcentration Factor (BCF): 73 L/kg ww Bioaccumulation potential is low.

12.4 Mobility in soil

• Data for Component: 4,4'-isopropylidenediphenol (CAS No.: 80-05-7)

Partition coefficient, organic carbon/water (K_{oc}): 750 @20°C

Henry's Law Constant (H): 3.12E-7 Pa m³/mol @25°C

Mobility class: Slightly mobile (K_{oc} between 500 and 2000, McCall et al.'s classification scheme)

Distribution modelling (model: Mackay, Level I):

Percent distribution in media:

Air: 0 %

Water: 30.5 %

Soil: 67.9 %

Sediment: 1.51 %

Susp. sediment: 0.05 %

Biota: 0 %

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

No further relevant information available. · Remark: Very toxic for fish ·

Additional ecological information:

· General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Do not allow product to reach ground water, water course or sewage system.

Very toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Any disposal method should also comply with national, regional, provincial, and local laws.

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN3077

· 14.2 UN proper shipping name

· ADR, IATA ENVIRONMENTALLY HAZARDOUS
SUBSTANCE,
SOLID, N.O.S. (bisphenol A)

· IMDG ENVIRONMENTALLY HAZARDOUS
SUBSTANCE,
SOLID, N.O.S. (bisphenol A), MARINE
POLLUTANT

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles.

· Label 9

· 14.4 Packing group

· ADR, IMDG, IATA III

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances: bisphenol A

· Marine pollutant: Yes

Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

· Special marking (IATA): Symbol (fish and tree)

· 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles.

· Hazard identification number (Kemler code): 90

· EMS Number: F-A,S-F

· Stowage Category A

· Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

(Contd. on page 10)

· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· Transport category	3
· Tunnel restriction code	(-)
· IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BISPHENOL A), 9, III

SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
Substance is not listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS
Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors
Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
Substance is not listed.
- REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozonedepleting potential)
- Additional classification according to Decree on Hazardous Materials, Annex II: None

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

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· Status of global inventories:

All component(s) within this product is listed or exempted from the following country's chemical inventory:

Mexico - INSQ

USA – TSCA

Australia – AICS

Canada – DSL

China – IECSC

EU – EINECS/NLP

Japan – ENCS

Korea – KECI

New Zealand – NZIoC

Philippines – PICCS

Taiwan – TCSI

Vietnam – NCI

Thailand - TECI

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

· Relevant phrases

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H360F May damage fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Date of previous version: 25.04.2023 ·

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic

1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· Sources

Most toxicological and eco-toxicological data are obtained from European Chemical Agency (ECHA)'s public dissemination website.

Chemical Risk Information Platform (CHRIP)

<http://echa.europa.eu/registration-dossier/-/registered-dossier/15752> · *

Data compared to the previous version altered.