

Material Safety Data Sheet

Bis Phenol-A MSDS

Section 1: Chemical Product and Company Identification

Product Name: Bis Phenol A

CAS#: 80-05-7

Synonym: Isopropylidenediphenol

Chemical Name: Bis Phenol A

Chemical Formula: C₁₅H₁₆O₂

Contact Information:

AGR Enterprises

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Section 2: Composition and Information on Ingredients

Substances

Synonyms : 2,2-Bis(4-hydroxyphenyl)propane 4,4'-
Isopropylidenediphenol

Formula : C₁₅H₁₆O₂

Molecular weight : 228.29 g/mol

CAS-No. : 80-05-7

EC-No. : 201-245-8

Index-No. : 604-030-00-0

Component

Classification

Concentration

Bisphenol A

Hazardous ingredients according to Regulation (EC) No 1272/2008

CAS-No. 80-05-7

EC-No. 201-245-8

Index-No. 604-030-00-0

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Eye Dam. 1; Skin Sens. 1;

Repr. 2; STOT SE 3; Aquatic

Chronic 2; H318, H317, H361f,

Eye Dam. 1; Skin Sens. 1;

Repr. 2; STOT SE 3; Aquatic

Chronic 2; H318, H317, H361f,

H335, H411

<= 100 %

<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Serious eye damage (Category 1),

H318 Skin sensitisation (Category

1), H317 Reproductive toxicity

(Category 2), H361f

Specific target organ toxicity - single exposure (Category 3), Respiratory system,

H335 Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Section 4: First Aid Measures

Description of first aid measures General

advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- | | |
|--------------------|------------------------------------|
| a) Appearance | Form: crystalline
Colour: beige |
| b) Odour | odourless |
| c) Odour Threshold | No data available |

e) pH	No data available
f) Melting point/freezing	Melting point/range: 158 - 159 °C - lit. point
g) Initial boiling point and range	220 °C at 5 hPa - lit. boiling
h) Flash point	227 °C at ca.1,013 hPa - closed cup
i) Evaporation rate	No data available
j) Flammability (solid, gas)	No data available
k) Upper/lower flammability or explosive limits	No data available
l) Vapour pressure	No data available
m) Vapour density	No data available
n) Relative density	1.2 g/cm ³ at 25 °C
o) Water solubility	0.298 g/l at 25 °C - OECD Test Guideline 105 - soluble
p) Partition coefficient: n-octanol/water	log Pow: 3.4 at 21.5 °C
q) Auto-ignition	510 °C temperature at 1,013 hPa
r) Decomposition temperature	No data available
s) Viscosity	No data available
t) Explosive properties	No data available
u) Oxidizing properties	No data available

9.2 Other safety information

Dissociation constant >= 11.3

Section 10: Stability and Reactivity Data

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong bases, Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects Acute

toxicity

LD50 Oral - Rat - male and female - > 2,000 - 5,000 mg/kg(Bisphenol A)
(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 6 h - 170 mg/m³(Bisphenol A) LD50 Dermal
- Rabbit - 6,400 mg/kg(Bisphenol A)

Skin corrosion/irritation Skin -

Rabbit(Bisphenol A) Result: No
skin irritation - 4 h (OECD Test
Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit(Bisphenol A) Result: Severe
eye irritation - 24 h

Respiratory or skin sensitisation

No data available(Bisphenol A)

Germ cell mutagenicity

Ames test(Bisphenol A)

S. typhimurium Result:
negative (Bisphenol A)

Mouse - male and female Result:
negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Bisphenol A)

Specific target organ toxicity - single exposure Inhalation -
May cause respiratory irritation.(Bisphenol A) (Bisphenol A)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Bisphenol A)

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - Lowest observed adverse effect level - 600
mg/kg(Bisphenol A)

RTECS: SL6300000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly
investigated.(Bisphenol A)

Section 12: Ecological Information

Toxicity

Toxicity to Fish: flow-through test LC50 - Pimephales promelas (fathead minnow) - 4.6 mg/l - 96 h(Bisphenol A)
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 10.2 mg/l - 48 h(Bisphenol A)

Toxicity to algae: static test EC50 - Pseudokirchneriella subcapitata (green algae) - 2.73 - 3.1 mg/l - 96 h(Bisphenol A)

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d(Bisphenol A)
Result: 89 % - Readily biodegradable
(OECD Test Guideline 301F)

Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 42 d
- 0.015 mg/l(Bisphenol A)

Bioconcentration factor (BCF): 20 – 67

Mobility in soil

No data available(Bisphenol A)

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

Toxic to aquatic life with long lasting effects.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

14.1 UN number

ADR/RID: 3077

IMDG: 3077

IATA: 3077

14.1 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A)

IATA: Environmentally hazardous substance, solid, n.o.s. (Bisphenol A)

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: no

IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

Section 15: Other Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

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.
H411	Toxic to aquatic life with long lasting effects.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AGR Enterprises be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AGR Enterprises has been advised of the possibility of such damages.



