Section 1. Product and Company Identification

Product Name Bisphenol A
CAS Number 80-05-7

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
(914) 654-6800 **(914) 654-6899**
parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
GHS Label Elements
The substance is classified and labelled according to the Globally Harmonized System (GHS).

Classification of the Substance or Mixture
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
Eye Dam. 1 H318 Causes serious eye damage.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

GHS Label Elements
Pictograms:

Signal word: DANGER

Hazard and precautionary statements
Hazard Statements
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.
Toxic to aquatic life with long lasting effects.

Precautionary Statements
Obtain special instructions before use

Do not handle until all safety precautions have been read and understood.
Immediately call a POISON CENTER/doctor/…
Call a POISON CENTER/doctor/…/if you feel unwell.
Wash contaminated clothing before reuse.
Specific treatment (see on this label).

Section 3. Composition / Information on Ingredients

Common Name Bisphenol A
CAS Number 80-05-7

Section 4. First Aid Measures

Description of first-aid measures
Inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
Skin contact: Immediately wash with water and soap and rinse thoroughly.
Eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
Ingestion: If symptoms persist consult doctor.

Information for doctor
Most important symptoms and effects, both acute and delayed: Irritant effects; Allergic reactions; Coughing; Dizziness

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

Extinguishing media
Suitable extinguishing agents: CO_2, powder, or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture: Carbon monoxide (CO); Carbon dioxide (CO_2)

Advice for firefighters
Protective equipment: Wear protective firefighting clothing (including firefighting helmet, coat, trousers, boots, and gloves).

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

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

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.
Methods and material for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep and shovel. Pick up mechanically. Sweep up. Contain spilled material if possible. Collect in suitable and properly labeled containers.
Dispose contaminated material as waste according to item 13.

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

Handling
Precautions for safe handling: Use personal protective equipment as required. Ensure good ventilation/exhaustion at the workplace.
Information about fire and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles. Keep container tightly sealed.

Section 8. Exposure Controls / Personal Protection

Additional information about design of technical facilities: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines.

Control parameters
Ingredients with limit values that require monitoring at the workplace:
80-05-7 bisphenol A
IOELV (EU) 10 mg/m³ (atembarer Staub)

Workers
DNEL (dermal, acute effects systemic): 1.4 mg/kg bw/day
DNEL (inhalation, acute effects systemic): 10 mg/m^3
DNEL (inhalation, acute effects local): 10 mg/m^3
DNEL (dermal, chronic effects systemic): 1.4 mg/kg bw/day
DNEL (inhalation, chronic effects systemic): 10 mg/m^3
DNEL (inhalation, chronic effects local): 10 mg/m^3

Consumers
DNEL (dermal, acute effects systemic): 0.7 mg/kg bw/day
DNEL (inhalation, acute effects systemic): 5 mg/m^3
DNEL (oral, acute effects systemic): 0.05 mg/kg bw/ day
DNEL (inhalation, acute effects local): 5 mg/m^3
DNEL (dermal, chronic effects systemic): 0.7 mg/kg bw/day
DNEL (inhalation, chronic effects systemic): 0.25 mg/m^3
DNEL (oral, chronic effects systemic): 0.05 mg/kg bw/day
DNEL (inhalation, chronic effects local): 5 mg/m^3

PNECs
PNEC(fresh water): 0.018 mg/l with assessment factor of 1
PNEC (freshwater sediments): 2.2 mg/kg sediment dw with assessment factor of 10
PNEC (marine water): 0.016 mg/l with assessment factor of 1
PNEC (marine sediments): 0.44 mg/kg sediment dw with assessment factor 510
PNEC (sewage treatment plant; STP): 230 mg/l with assessment factor of N/A
PNEC (soil): 3.7 mg/kg soil dw with assessment factor of 10
PNEC (intermittent release): 0.01 mg/l with assessment factor of 100

Additional information: The lists valid during the making were used as basis.

Exposure controls
Personal protective equipment
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Protective gloves
The selected protective gloves have to satisfy the specifications of standard EN 374 or its equivalent.
Chemical-resistant glove conforming to EN374 Class 1 is recommended.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: Nitrile rubber, NBR
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: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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

Body protection: Protective work clothing

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties
Form: Prills
Color: White
Odor: Phenol-like
Odor threshold: Not determined.
pH Value: Not applicable.

Change in condition
Melting point/Melting range: 156 - 157°C
Boiling point/Boiling range: 220/5 mbar °C
Flash point: 227°C
Flammability (solid, gaseous): Product is not flammable.

Ignition temperature
Decomposition temperature: Not determined.

Self-igniting: Not determined.
Danger of explosion: Product does not present an explosion hazard.
Explosion limits:
Lower: Not determined.
Upper: Not determined.
Vapor pressure at 170°C: 0.27 hPa
Density: Not determined.
Relative density: Not determined.
Vapor density: Not applicable.
Evaporation rate: Not applicable.
Solubility in/Miscibility with Water at 25°C: 0.3 g/l
Partition coefficient (n-Octanol/water): 3.32 log POW

Viscosity
Dynamic: Not applicable.
Kinematic: Not applicable.

Solvent content
VOC (EC): 0.00%
Solids content: 100.0%

Other information: No further relevant information available.

Section 10. Stability and Reactivity

Reactivity: When properly handled and stored, no dangerous reaction is known.
Chemical stability: This product is stable under prescribed use and storage.
Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions: Risk of dust explosion.
Conditions to avoid: No further relevant information available.
Incompatible materials: Strong oxidizing agents; Acids.
Hazardous decomposition products: Phenol; Carbon monoxide (CO)

Section 11. Toxicological Information

Information on toxicological effects
Acute toxicity: Not classified based on available data.
LD/LC50 values relevant for classification:
80-05-7 Bisphenol A
Oral LD50: 3250 mg/kg (rat)
Dermal LD50: 3000 mg/kg (rabbit)

Skin corrosion/irritation: Not classified based on available data.
Rabbit: not irritating (OECD Test Guideline 404)

Serious eye damage/eye irritation: 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.
Reproductive Toxicity: Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure (STOT SE): Causes damage to organs.
Specific Target Organ Toxicity - Repeated Exposure (STOT RE): Not classified based on available data.
Aspiration Hazard: Not classified based on available data.

Primary irritant effect
on the skin: No irritating effect.
on the eye: Strong irritant with the danger of severe eye injury.

Sensitization: Sensitization possible through skin contact.
CMR effects (Carcinogenicity, mutagenicity and toxicity for reproduction): Repr. 2

Section 12. Ecological Information

Toxicity
Aquatic toxicity:
Toxic to aquatic life.
LC50 (96hr, freshwater fish): 4,6 mg/L (OECD 203)
LC50 (96 hr, saltwater fish)=11 mg/L (OECD 203)
NOEC (freshwater fish, 144d)= 0,016 mg/L (EPA OPP72-5)
NOEC (saltwater fish, 164d)= 0,064 mg/L (EPA 850,1500; TWA)
EC50/LC50 (fresh water invertebrates, 48hr): 10,2 mg/L (E07-04; ASTM E-35,21)
EC50/LC50 (marine water invertebrates, 96hr): 1,1 mg/L (E07-04)
NOEC (freshwater invertebrate, 328d): 0,025 mg/L (Test Method N/A)
NOEC (marine water invertebrate, 28d)=0,17 mg/L (EPA OPPTS 850,1350)
EC50/LC50 (freshwater algae, 96hr)=2,73 mg/L (EPA-600/9-78-018)
EC50/LC50 (marine water algae, 96hr)=1,1 mg/L (EPA-560-6-82-002)
EC50/LC50 (freshwater plant, 7d)=20 mg/L mg/L (Test Method N/A)
NOEC (freshwater plant, 7d) = 7,8 mg / L (Test Method N/A)

Persistence and degradability: Easily biodegradable
Degradation: 89% (28d, OECD 301F)

Bioaccumulative potential: Not worth-mentioning accumulating in organisms
Bioconcentration Factor (BCF): 73 L/kg
log Koc: 2,95 (Koc=895)

Mobility in Soil
Partition coefficient, soil organic carbon/water (Koc): 750 +/- 348 L/kg
Henry's Law Constant (H) : 3,12E-7 Pa*m3/mol

Ecotoxical Effects
Remark: Harmful to fish

Additional ecological information
General notes
Water hazard class 2 (German Regulation) (Assessment by list): Hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

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.

Other adverse effects: No further relevant information available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

UN Number
ADR, IMDG, IATA UN3077

UN proper shipping name
ADR None (Not Regulated)
IMDG: Environmentally Hazardous Substance, Solid, N.O.S., Marine Pollutant
IATA: Environmentally Hazardous Substance, Solid, N.O.S.

Transport hazard class(es)
ADR, IATA
Class: 9 - Miscellaneous dangerous substances and articles.

IMDG
Class: 9 - Miscellaneous dangerous substances and articles.
Label: 9
Packing group: III
Environmental hazards: Product contains environmentally hazardous substances: bisphenol A
Marine pollutant: Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)
Special marking (IATA): Symbol (fish and tree)
Special precautions for user Warning: Miscellaneous dangerous substances and articles.
EMS Number: F-A,S-F

Transport/Additional information
ADR
Limited quantities (LQ): 5 kg
UN "Model Regulation": -

Section 15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for the substance or mixture
Status of global inventories: All component(s) within this product is listed or exempted from the following country's chemical inventory:
USA - TSCA
Australia - AICS
Canada - DSL

China - IECSC
EU - EINECS/NLP
Japan - ENCS
Korea - KECI
New Zealand - NZIoC
Philippines - PICCS
Taiwan - ECSI
Mexico - INSQ

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

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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