



Khuzestan Petrochemical Co.

SAFETY DATA SHEET

Revised Edition No. : 2

Date :
23/04/2016

Supersedes :
23/04/2016

1) Identification of the Substance / Preparation & of the Company / Undertaking

Trade Name : Polycarbonate PC
Identification of the Product : Solid
Type of Product : Polycarbonate resin
Use : Industrial
Company Identification :

Factory Address: Site 4, Pet Zone, Bandar Imam, Khuzestan, IRAN.

E-mail: info@kzpc.ir

Tel Info .Center Site: 06152170100-18

Fax No Site: 06152170090

2) Composition / Information on Ingredients

Synonyms: Carbonic dichloride, polymer with 4,4' -(1-methylethylidene)bis (phenol)

CAS#	Chemical Name	%	EINECS#
24936-68-3	Poly[oxycarbonyloxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene]	100	-

3) Hazards Identification

Appearance

Cylindrical pelle, clear or opaque in sevsral colors.

Target Organs

None.

Potential Health Effects

Eye:

Monomer vapors from heated product can cause irritation and tearing.

Skin:

No primary skin irritant known.

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Ingestion:

Very low oral toxicity.

Inhalation:

Inhalation of monomer vapor from heated product can cause coughing, labored breathing, irritation of nose, throat, lungs.

Chronic:

Neither any chronic health hazards associated with exposure to polycarbonate, nor are there any medical conditions known to be generally aggravated by such exposure.

4) First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation persists.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult a physician if irritation persists.

Ingestion:

Not ordinarily required.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and Consult a physician if irritation persists.

5) Fire – Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Dust Cloud Ignition Temperature: 710°C

Flash Point: >400°C

Explosion Limits:

Lower: Not available.



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Upper: Not available.

Security Rating: (estimated) Health- 1; Flammability: -1; reactivity: -0(related to NFPA ID-System)

6) Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated below in Exposure Control, Personal Protection.

Spills/Leaks:

Transfer spilled material to suitable containers for recovery or disposal.

7) Handling and Storage

Handling:

Polycarbonate can release monomer vapors or gases when heated to high temperatures during processing, cutting or machining.

Storage:

The maximum recommended storage temperature for Polycarbonate is 80°C. This material is not Hazardous under normal storage conditions. However, all material of this type release some monomer vapors or gases when stored for prolonged period at elevated temperature. Avoid temperature extremes during storage; ambient temperature preferred. Do not store flammable material together with Polycarbonate.

8) Exposure Controls / Personal Protection

Engineering Controls:

Local exhaust ventilation a minimum capture velocity of 0.75m/sec. at the point of dust or mist evolution is recommended.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Poly[oxy-carbonyloxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene]	not available	not available	not available



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Personal Protective Equipment:

Eyes:

Use safety glasses.

Skin:

Wear appropriate protective gloves made of cotton or canvas to prevent skin exposure.

Clothing:

Protective clothing should be worn during hood and ductwork clean-up operations to prevent skin contact.

Respirators:

No respiratory protection under normal operating conditions.

9) Physical and Chemical Properties

a) Physical State:	Solid @ Standard Conditions
b) Appearance	Colorless; Clear to Opaque
c) Odor	Odorless
d) pH	-
e) boiling point	-
f) Evaporation rate	-
g) Vapour pressure	-
h) Vapour density	-
i) solubility	insoluble in water
j) Decomposition temperature	>420°C
k) Viscosity	no data available
l) Freezing/Melting Point	≅ 220°C
m) Bulk-Density	600-650 kg/m ³
n) Molecular Formula	(C ₁₆ H ₁₄ O ₃) _n
o) Molecular Weight	-
p) Specific Gravity/Density	1.2 kg @ 20°C



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10) Stability and Reactivity

Chemical Stability:

Is considered stable. however at temperature above 420°C Polycarbonate inclines to slow decomposition.

Conditions to Avoid:

temperature above 420°C

Incompatibilities with Other Materials:

There are no known material which are incompatible with polycarbonate.

Hazardous Decomposition Products:

Thermal decomposition many produce Methane, Phenolics, Bisphenol A and diphenyl carbonate.

Hazardous Polymerization:

Product will not undergo polymerization.

11) Toxicological Information

RTECS#:CAS# 24936-68-3: TR1580150

LD50/LC50:

Not available.

Carcinogenicity: CAS# 24936-68-3: Oral, rat LD50 > 6000 mg/kg

Eye:

Rabbit: slight irritation

Skin:

Rabbit: slight irritation

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Mutagenicity:

No information available.

Neurotoxicity:

No information available.



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Other Studies: 12) Ecological Information

Ecotoxicity:

no data available, no information available.

Environmental:

no information found.

Physical:

no information found.

Other:

no information available.

13) Transport Information

US DOT:

not Hazard

RID.ADR:

not Hazard