



POLYGUARD

SAFETY DATA SHEET

Polycarbonate Sheet

1. Identification

Product Name	Polycarbonate Sheet
Use	General use: Not available Restricted use: Not available
Supplier	Calsak Plastics
Address	5800 Campus Circle Drive E, Suite 150b • Irving, TX 75063
Telephone	469-299-7000

2. Hazard Identification

A. GHS Classification: Not applicable

B. GHS Label Elements

- Hazard symbols: Not applicable
- Signal words: Not applicable
- Hazard statements: Not applicable
- Precautionary statements
 1. Prevention: Not applicable
 2. Response: Not applicable
 3. Storage: Not applicable
 4. Disposal: Not applicable

C. Other hazards which do not result in classification: (NFPA Classification)

- NFPA grade (0 ~ 4 level)
Health : 1 , Flammability : 1, Reactivity : 0

3. Composition / Information on Ingredients

Chemical Name	Trade Names and Synonyms	CAS No.	Content(%)
Carbonic dichloride polymer with 4,4'-(1-methylethylidene) bis[phenol], 4-(1,1-dimethylethyl)phenylester	–	103598-77-2	> 99

4. First Aid Measures

A. Eye contact

Do not rub your eyes.
Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

B. Skin contact

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Laundering enough contaminated clothing before reuse.

C. Inhalation contact

When exposed to large amounts of steam and mist, move to fresh air.
Take specific treatment if needed.

D. Ingestion contact

About whether I should induce vomiting, take the advice of a doctor.
Rinse your mouth with water immediately.

E. Delayed and immediate effects and also chronic effects from short and long term exposure

Not available

F. Notes to physician

Notify medical personnel of contaminated situations and have them take appropriate protective measures.

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5. Firefighting Measures

A. Suitable (Unsuitable) extinguishing media

Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
Avoid use of water jet for extinguishing

B. Specific hazards arising from the chemical

Not available

C. Special protective actions for firefighters

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative.
Avoid inhalation of materials or combustion by-products.
Do not access if the tank on fire.
Use appropriate extinguishing measure suitable for surrounding fire.
Keep containers cool with water spray.

6. Accidental Release Measures

A. Personal precautions, protective equipment and emergency procedures

Ventilate closed spaces before entering.
Do not touch spilled material. Stop leak if you can do it without risk.
Handling the damaged containers or spilled material after wearing protective equipment.

B. Environmental precautions

Prevent runoff and contact with waterways, drains or sewers.
If large amounts have been spilled, inform the relevant authorities.

C. Methods and materials for containment and cleaning up

Large spill: Stay upwind and keep out of low areas. Dike for later disposal.
Notification to central government, local government. When emissions at least of the standard amount
Dispose of waste in accordance with local regulation.
Appropriate container for disposal of spilled material collected.
Small liquid state spills: Appropriate container for disposal of spilled material collected.
For disposal of spilled material in appropriate containers collected and clear surface.

7. Handling and Storage

A. Precautions for safe handling

Wash thoroughly after handling.
Avoid direct physical contact.
Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
Comply with all applicable laws and regulations for handling

B. Conditions for safe storage, including any incompatibilities

Save applicable laws and regulations.
Do not apply any physical shock to container.
Avoid direct sunlight.
Keep in the original container.
Please pay attention to incompatibilities materials and conditions to avoid.

8. Exposure Control / Personal Protection

A. Exposure limits

– ACGIH TLV: Not available
– OSHA PEL: Not available

B. Engineering controls

A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.



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C. Personal protective equipment

Respiratory protection

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Dust, mist, fume-purifying respiratory protection
- Any air-purifying respirator with a corpuscle filter of high efficiency
- Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
- Self-contained breathing apparatus with a corpuscle filter of high efficiency
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

Hand protection

- Wear appropriate glove.

Skin protection

- Wear appropriate clothing.

Others: Not available

9. Handling and Storage

A. Appearance

Appearance: Solid sheet
Color: Not available

B. Odor: Not available

C. Odor Threshold: Not available

D. pH: Not available

E. Melting point/Freezing point: Not available

F. Initial Boiling Point/Boiling Ranges: Not available

G. Flash point: Not available

H. Evaporation rate: Not available

I. Flammability(solid, gas): Not available

J. Upper/Lower Flammability or explosive limits: Not available

K. Vapour pressure: Not available

L. Solubility: Not available

M. Vapour density: Not available

N. Specific gravity(Relative density): Not available

O. Partition coefficient of n-octanol/water: Not available

P. Autoignition temperature: Not available

Q. Decomposition temperature: Not available

R. Viscosity: Not available

S. Molecular weight: Not available

10. Stability and Reactivity

A. Chemical Stability

This material is stable under recommended storage and handling conditions.

B. Possibility of hazardous reactions

Hazardous Polymerization will not occur.

C. Conditions to avoid

Avoid contact with incompatible materials and condition.

Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces

D. Incompatible materials

Not available

E. Hazardous decomposition products

May emit flammable vapour if involved in fire.



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11. Toxicological Information

A. Information on the likely routes of exposure

- Respiratory tracts: Not available
- Oral: Not available
- Eye / Skin: Not available

B. Delayed and immediate effects and also chronic effects from short and long term exposure

- Acute toxicity
 1. Oral: Not available
 2. Dermal: Not available
 3. Inhalation: Not available
- Skin corrosion/irritation: Not available
- Serious eye damage/irritation: Not available
- Respiratory sensitization: Not available
- Skin sensitization: Not available
- Carcinogenicity
 1. IARC: Not available
 2. OSHA: Not available
 3. ACGIH: Not available
 4. NTP: Not available
 5. EU CLP: Not available
- Germ cell mutagenicity: Not available
- Reproductive toxicity: Not available
- STOT-single exposure: Not available
- STOT-repeated exposure: Not available
- Aspiration hazard: Not available

12. Ecological Information

A. Ecotoxicity

- Fish: Not available
- Crustaceans: Not available
- Algae: Not available

B. Persistence and degradability

- Persistence: Not available
- Degradability: Not available

C. Bioaccumulative potential

- Bioaccumulative potential: Not available
- Biodegradation: Not available

D. Mobility in soil

- Not available

E. Other adverse effects

- Not available

13. Disposal Considerations

A. Disposal methods

Since more than two kinds of designated waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process.

If water separation is possible, pre-process with Water separation process.

Dispose by incineration.

If you have a trouble in incinerating, reclaim in a landfill based on a management and takes care of wastes designated after smashing, cutting or melting it less than 15cm.

B. Special precautions for disposal

The user of this product must dispose by oneself or entrust to waste disposer or person who others' waste recycle and dispose, person who establish and operate waste disposal facilities.

Dispose of waste in accordance with all applicable laws and regulations.



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14. Transportation Information

A. UN No. (IMDG): Not available

B. Proper shipping name: Not available

C. Hazard Class: Not available

D. IMDG Packing group: Not available

E. Marine pollutant: Not available / Not applicable

F. Special precautions for user related to transport or transportation measures

Local transport follows in accordance with Dangerous goods Safety Management Law.

Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

EmS FIRE SCHEDULE: Not available

EmS SPILLAGE SCHEDULE: Not available

15. Regulatory Information

A. National and/or international regulatory information

– POPs Management Law: Not available

– Information of EU Classification

1. Classification: Not available

2. Risk Phrases: Not available

3. Safety Phrase: Not available

– U.S. Federal regulations

1. OSHA PROCESS SAFETY (29CFR1910.119): Not available

2. CERCLA Section 103 (40CFR302.4): Not available

3. EPCRA Section 302 (40CFR355.30): Not available

4. EPCRA Section 304 (40CFR355.40): Not available

5. EPCRA Section 313 (40CFR372.65): Not available

– Rotterdam Convention listed ingredients: Not available

– Stockholm Convention listed ingredients: Not available

– Montreal Protocol listed ingredients: Not available

16. Other Information

A. Reference

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

B. Issue date

2015-11-25

C. Revision number and Last date revised

1 time, 2016-02-10

D. Other

This SDS is prepared according to the Globally Harmonized System (GHS).



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