



台 化 出 光 石 油 化 學 股 份 有 限 公 司
FORMOSA IDEMITSU PETROCHEMICAL CORPORATION
RM.391, 7th FL., 201, TUNG HWA N. RD. TAIPEI, TAIWAN, R.O.C
TEL: 886-2-27122211 EXT. 6616 FAX: 886-2-25473133

SECTION 1 -- Chemical Product and Company Identification

Product name: TARFLON™ POLYCARBONATE

#1000, #1200, #1300, #1400 (# : FN, XS)

#1500 (# : FN, A, MD, VD, XA, XS, PC9)

#1600 (# : FN)

#1700 (# : FN, A, IR, LEV-KL, XS)

#1900 (# : FN, A, R, IR, IV-R)

#2200 (# : FN, A, R, IR, IV-R, HQ, LEV-KL, XS)

#2500 (# : FN, A, IR, IV, VT)

Company Information:

Supplier Name: Formosa Idemitsu Petrochemical Corporation
Address: Room 391, 7th Floor, 201, Tung-Hwa N. Road, Taipei, Taiwan, R.O.C.
Tel: +886-2-2712-2211 EXT.6616
Fax: +886-2-2547-3133
Emergency phone: +886-2-2712-2211 EXT.6619

Recommended use of the chemical and restriction on use:

Intended use for compounding / extrusion / industry use only

Version

SDS Number: FI0102-14
Issue Date: October 19, 2018

SECTION 2 – Hazards Identification

GHS-classification These materials are not classified according to GHS.

GHS label element None

Precautionary statement None

Other hazards which are not covered by the GHS Dust explosion

SECTION 3 – Composition/information on ingredients

Chemical Information

Name Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[phenol],
4-(1,1-dimethylethyl)phenyl ester
(Poly-(4,4'-isopropylidene diphenyl carbonate))
Synonym Polycarbonate
Formula $[-O-C_6H_4-C(CH_3)_2-C_6H_4-O-CO-]_n$



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Type Mixture
CAS No. 103598-77-2 (25971-63-5)

Chemical composition

Components	CAS No.	Concentration (wt-%)
Polycarbonate	103598-77-2 (25971-63-5)	>99.0
Proprietary ingredients	-	<1.0

SECTION 4 – First-aid Measures

Eye contact	Remove contact lenses at once. Immediately flush eyes with large quantities of water for at least 15 minutes. Get medical attention.
Skin contact	If contact with molten product occurs, treat as for thermal burn. Do not try to peel molten polymer from the skin. Get medical attention.
Inhalation	Not like to be inhaled due to physical form. For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any symptoms develop. Get medical attention.
Ingestion	Not a likely route of exposure. If person is conscious, give large amounts of water to drink. Induce vomiting. Get medical attention.

SECTION 5 – Fire-fighting Measures

Extinguishing media	Water spray and foam. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.
Hazardous combustion product	The combustion products may include intense heat and high levels of black smoke containing, carbon monoxide, carbon dioxide. Formation of traces of aliphatic and aromatic hydrocarbons, aldehyde, acids, phenol and phenol derivatives may occur.
Fire fighting	Water spray is the preferred extinguishing medium. Use water spray to cool fire exposed surfaces, protect personnel, and extinguish the fire. Respiratory and eye protections are required for fire fighting personnel.
Protection of fire-fighter	To select the respiratory protection for fire fighting. Follow the general fire precautions indicated in the workplace.



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SECTION 6 – Accidental release measures

Personal precautions, protective equipment and emergency measures	Avoid inhalation of dust.
Environmental precautions	Do exit to sewers and waterways, because fish may eat pellets and obstruct their digestive tracts.
Clean-up methods and materials and containment measures	Sweep or gather up product and place in proper container for disposal or recovery.

SECTION 7 – Handling and storage

HANDLING	Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. If product is powder and transported with air, make explosion relief provision.
STORAGE	Store in a dry place away from moisture, excessive and sources of ignition.

SECTION 8 – Exposure controls/personal protection

Exposure control

OSHA regulation (29CFR1910. 1000)	5 mg/m ³ (respirable dust), and 15 mg/m ³ (total dust) based on OSHA PEL for nuisance dust.
ACGIH TLV	A TWA of 10 mg/m ³ (total dust) for nuisance dust.
Ventilation	A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fumes may contain small amounts of carbon dioxide, diphenyl-carbonate, phenol and substituted phenols. Ventilation requirements must be locally determined to limit exposure to materials at their point of use.

PERSONAL PROTECTION

SKIN	No precaution other than clean body-covering clothing should be needed.
EYE	Safety glasses should be sufficient for most operations, however, for dusty operations or when handling solutions of the material, wear chemical goggles.

SECTION 9 – Physical and chemical properties

Appearance	
Physical state	Solid
Form	Flake (FN grade), Pellet (Others except FN grade)
Color	Natural
Odor	None
pH	Not applicable
Melting point	220~230°C <



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Boiling point	Not applicable
Flash point	522°C <
Auto-ignition temperature	550°C <
Evaporation rate	Not applicable
Flammability	Not applicable
Upper flammability	Not applicable
Lower flammability	Not applicable
Vapor pressure	Negligible
Vapor density	Not applicable
Specific density	1.20
Solubility	Insoluble in water
Partition coefficient (n-octanol/water)	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable

SECTION 10 – Stability and reactivity

Reactivity	No reactive under recommended conditions of storage and handling.
Chemical stability	Stable under recommended conditions of storage and handling.
Possibility of hazardous Reactions	Dust explosion, ignition energy(dust) $\geq 25\text{mJ}$
Condition to avoid	Attacked by strong oxidizing agents. Workspace shall be provided with anti-static device.
Incompatible materials	No data available
Hazardous decomposition product	During combustion: Carbon dioxide, Carbon monoxide.

SECTION 11 – Toxicological information

Acute toxicity	None known
Skin corrosion/irritation	If heated, the product may form vapors or fume which could cause pain, redness or irritation of skin.
Eyes corrosion/irritation	If heated, the product may form vapors or fume which could cause pain, redness or irritation of skin.
Respiratory sensitizer	None known
Skin sensitizer	None known
Germ cell mutagenicity	None known
Carcinogenicity	None known
Toxic to reproduction	Rats are fed food with 6% polycarbonate fine powder during 8 weeks, reproduction function results are normal.
Specific target organ toxicity - single exposure	None known



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Specific target organ toxicity - None known
repeated exposure

SECTION 12 – Ecological information

Eco-toxicity	None known
Persistence and degradability	None known
Bio-accumulative potential	None known
Mobility in soil	None known
Other adverse effects	None known

SECTION 13 – Disposal considerations

Waste properties	Solid industrial wastes
Notification	Dispose of in accordance with local regulations. Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14 – Transport information

UN number	None
UN proper shipping name	None
Transport hazard class	Not regulated
Packing group	None
Marine pollutant	No
Special precautions	Always transport in closed containers that are upright and secure. Shall prepare fire extinguisher and personal protective equipment during transportation. Do avoid the static generation and direct sunshine.

SECTION 15 – Regulatory information

SDS is prepared and referred by Regulations and/or Acts as follows:

1. Global Harmonized System
2. Industrial Safety and Health Act
3. Poisonous and Deleterious Substances Control Act
4. Act on the Evaluation of Chemical Substances and Regulation
5. Law concerning Pollutant Release and Transfer Register
6. Fire Service Act
7. Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule
8. SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372



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SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

9. California Proposition 65

This product contains the following Proposition 65 chemicals

chemical name	California Proposition 65
Methylene chloride 75-09-2	Carcinogen
Bisphenol A (BPA) 80-05-7	Female Reproductive System

SECTION 16 – Other information

The data is prepared and confirmed by "Technical Team of Formosa Idemitsu Petrochemical Corporation".

The information given above is believed accurate and provided without warranty.

The determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

If customers have other questions, please contact to Formosa Idemitsu Petrochemical Corporation for your satisfaction.