

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

A. GHS product identifier : [1] ECOZEN® T90, T90H, T90D, YH050, YF050, YA050, BS050, YM050, T95, T95H, YH100, YF100, YA100, BS100, BS100D, YM100, T110, T110H, YH300, YF300, YA300, BS300, BS300D, YM300, T120, T120H, YH400, YF400, YA400, BS400, YM400.

[2] ECOZEN® T90G, YH051, YF051, YA051, BS051, YM051, T95G, YH101, YF101, YA101, BS101, YM101, T110G, YH301, YF301, YA301, BS301, YM301, T120G, YH401, YF401, YF401D, YA401, BS401, YM401, ECOZEN SE, ECOZEN SE-W, T90G C/Bl, T90G wh1007, ECOZEN BP.

NOTE : Not all the above grades are available in all markets.

B. Recommended use of the chemical and restrictions on use

Recommended use : Plastics

Restrictions on use : Use for recommended use only

C. Supplier

Company name : SK Chemicals America, Inc.

Address : 2 Park Plaza Suite 1250, Irvine CA, 92614 USA

Emergency phone number : +1-949-336-8088

Fax : +1-949-336-8089

2. Hazards identification

A. GHS classification of the substance/mixture

Not classified

B. GHS label elements, including precautionary statements

Pictogram and symbol : Not applicable

Signal word : Not applicable

Hazard statements : Not applicable

Precautionary statements

Precaution : Not applicable

Treatment : Not applicable

Storage : Not applicable

Disposal : Not applicable

C. Other hazard information not included in hazard classification (NFPA)

Health : Not available

Flammability : Not available

Reactivity : Not available

3. Composition/information on ingredients

A. Substance [1]

Chemical Name	Common Name (Synonyms)	Additional identification	Content (%)
copolyester	PCTG (or PEICT)	proprietary	100

B. Substance [2]

Chemical Name	Common Name (Synonyms)	Additional identification	Content (%)
copolyester	PCTG (or PEICT)	proprietary	99≤
Additives	Confidential	Confidential	≤1

4. First aid measures

A. Eye contact

- Seek medical attention if eye symptoms occur.
- In case of contact with molten substance, immediately flush eyes with water for at least 15 minutes. Seek medical attention immediately.

B. Skin contact

- Remove and isolate contaminated clothing and shoes.
- Seek medical attention if skin symptoms occur.
- If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.
- Wash contaminated clothing and shoes before reuse.

C. Inhalation : Not available

D. Ingestion

- Get medical attention if substance is ingested.

E. Indication of immediate medical attention and notes for physician

- Call emergency medical service. Get medical advice/attention if you needed.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- If burned by contact with molten material, cool as quickly as possible with water, and then see a physician for treatment.

5. Fire fighting measures

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media: CO₂, water, sand

B. Specific hazards arising from the chemical

- Thermal decomposition products: Not available
- Hazardous combustion products: CO₂, CO
- Unusual fire and explosion hazards : No explosion hazards.

C. Special protective equipment and precautions for fire-fighters

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural fire fighters' protective clothing will only provide limited protection.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

- Stop leak if it can be done without risk.
- Isolate exposed area.
- Exclude unauthorised personnel.
- Use certified protective equipment.
- Ventilate the leaked area.
- Do not touch or walk through spilled material.

B. Environmental precautions and protective procedures

- Prevent entry into waterways, sewers, basements or confined areas.

C. The methods of purification and removal

- Use sweeping brush or vacuum cleaner.

7. Handling and storage

A. Precautions for safe handling

- Avoid contact with molten material.
- Use general dilution ventilation and /or local exhaust ventilation to control airborne exposures.
- Prevention of Fire and Explosion: Not available.

B. Conditions for safe storage

- Keep container closed.
- Store container in a well dry/cool place.
- Keep away from water ways and sewers.
- Keep away from any source of ignition.

8. Exposure controls/personal protection

A. Occupational Exposure limits

Korea regulation : Not applicable

ACGIH regulation : Not applicable

Biological exposure index : Not applicable

OSHA regulation : Not applicable

NIOSH regulation : Not applicable

EU regulation : Not applicable

Other : Not applicable

B. Appropriate engineering controls

- Provide local exhaust ventilation system or other engineering controls to keep any airborne contamination below the respective threshold limit value.
- Check legal suitability of exposure level.

C. Personal protective equipment

Respiratory Protection:

- Wear NIOSH approved full or half face piece (with goggles) respiratory protective equipment when necessary.

Eye protection

- An eye wash unit and safety shower station should be available nearby work place.
- Wear safety glasses to protect eyes when working with molten material..

Hand protection

- It is a good industrial hygiene practice to minimize skin contact.
- When material is heated, wear gloves to protect against thermal burns

Body protection

- It is a good industrial hygiene practice to minimize skin contact. When material is heated, Wear gloves to protect against thermal burns.

9. Physical and chemical properties

A. Appearance

Description : Solid (pellets)

Color : Colorless or varies with product

B. Odor : Slight odor

C. Odor threshold : Not applicable

D. pH : Not applicable

E. Melting point/freezing point : Not applicable

F. Initial boiling point and boiling range : Not applicable

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. Vapor pressure : Negligible (20°C)

L. Solubility (ies) : Negligible

M. Vapor density : Not available

N. Specific gravity : > 1 (density: 1.25 ~ 1.27 g/ml (25 °C))

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

- P. **Auto ignition temperature** : Not available
Q. **Decomposition temperature** : Not available
R. **Viscosity** : Not available
S. **Molecular weight** : Not available

10. Stability and reactivity

- A. **Chemical stability** : Stable
B. **Possibility of hazardous reactions**: None Known
C. **Conditions to avoid**: None Known
D. **Incompatible materials**: Not available
E. **Hazardous decomposition products**: Not available

11. Toxicological information

A. Information of health Hazardous

Acute toxicity

Oral : None known

Dermal : Not available

Inhalation : Not available

Skin corrosion/ irritation : Molten material will produce thermal burns

Serious eye damage/ irritation : Molten material will produce thermal burns

Respiratory sensitization : Not available

Skin sensitization : Not available

Carcinogenicity : Not classified

KOREA-ISHL, IARC, NTP, OSHA, ACGIH, EU Regulation 1272/2008: Not listed

Mutagenicity : Not available

Specific target organ toxicity (single exposure) : Not available

Specific target organ toxicity (repeat exposure) : Not available

Aspiration Hazard : Not available

12. Ecological information

A. Ecological toxicity

- **Acute toxicity** : Not available

- **Chronic toxicity** : Not available

Fish : Not available

crustacean : Not available

Algae : Not available

B. Persistence and degradability

Persistence : Not available

Degradability : Not available

C. Bioaccumulative potential

Bioaccumulation : Not available

Biodegradation : Not available

D. Mobility in soil : Not available**E. Other hazardous effect** : Not available

13. Disposal considerations

A. Disposal method

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

B. Disposal precaution

-Consider the requirements of any applicable waste treatment management regulation.

14. Transport information

A. UN Number

ADR/RID(International Carriage of Dangerous Goods by Rail and by Road), DOT (US Department of Transportation), IMDG (International Maritime Dangerous Goods Code), IATA (International Air Transport Association) : Not regulated as a hazardous material.

B. UN Proper shipping name

ADR/RID, DOT, IMDG, IATA : Not applicable

C. Transport Hazard class

ADR/RID, DOT, IMDG, IATA : Not applicable

D. Packing group

ADR/RID, DOT, IMDG, IATA : Not applicable

E. Marine pollutant : Not applicable**F. Special precautions**

in case of fire : Not applicable

in case of leakage : Not applicable

15. Regulatory information

① US Regulatory information

U.S.A management information (OSHA Regulation) : Not regulated

U.S.A management information (CERCLA Regulation) : Not regulated

U.S.A management information (EPCRA 302 Regulation) : Not regulated

U.S.A management information (EPCRA 304 Regulation) : Not regulated

U.S.A management information (EPCRA 313 Regulation) : Not regulated

② Foreign Regulatory Information

Korea regulatory Information

Occupational Safety and Health Regulation : Not regulated

Toxic Chemical Control Act : Non-Toxic Chemicals (97-3-186)

Dangerous Material Safety Management Regulation : Not regulated

Waste Control Act : Not regulate

Persistent Organic Pollutants Acts : Not regulated

External information

EU classification (classification) : Not regulated

EU classification (risk phrases) : Not regulated

EU classification (safety phrases) : Not regulated

EU SVHC list : Not regulated

EU Authorisation List : Not regulated

EU Restriction list : Not regulated

Persistent Organic Pollutants Acts : Not regulated

Substance of Rotterdam Protocol : Not regulated

Substance of Stockholm Protocol : Not regulated

Substance of Montreal Protocol : Not regulated

16. Other information

A. Information source and references

B. Issuing date : 01/June/2015

C. Revision number and date

revision number : 6

date of the latest revision : 24/October/2017

D. Others

Revised Material Safety Data Sheet based on the amendments made on the Ministry of Employment and Labor Public Notice on Standard for Classification Labeling of Chemical Substance and Material Safety Data Sheet.

This SDS is authored in pursuant to the Article 41 of the Occupational Safety and Health Act.

The content is based on the latest information and knowledge that we currently possess.

This SDS was authored to aid buyer, processor or any other third person who handles the chemical of subject in the SDS; additionally, it does not warrant suitability of the chemical for any particular purposes or the commercial use of statements that approves the use of it in combination with other chemicals as well as technical or legal liabilities.