MATERIAL SAFETY DATA SHEET



Date Updated: 2011-02-25 Version: SK-110225

Regulation: EC No 1272/2008

SECTION 1: SUBSTANCE IDENTIFICATION

Name of Substance: 1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-

cyclohexanedimethanol and 1,2-ethanediol

Product Name: SKYGREEN S2008

CAS #: 25038-91-9

EC #:

(Pre) registration TPA : 01-2119485970-27-**** monomers*: TPA : 01-2119456816-28-****

MEG : 01-2119456816-28-****

CHDM : 01-2119448337-34-****

PRIMARY / COMMON USES

Uses by workers in industrial settings

Identified Use (IU) name	Process Category (PROC)	Market sector by type of chemical product (PC)	Environmental release category (ERC)	Sector of Use (SU)
Polymerization at production sites of substance (on-site) and at downstream user sites (off-site)	PROC 1: Use in closed process, no likelihood of exposure PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	PC 19: Intermediate PC 32: Polymer preparations and compounds	ERC 6c: Industrial use of monomers for manufacture of thermoplastics ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers	SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 9: Manufacture of fine chemicals SU 12: Manufacture of plastics products, including compounding and conversion

^{*} All monomers are (pre) registered in this substance (polymer)

Uses by consumers

Identified Use (IU) name	Product Category (PC)	Environmental release category (ERC)	Article category related to subsequent service life (AC)
Service Life of PETG contained in articles	PC 32: Polymer preparations and compounds	ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release	AC 13: Plastic articles
		ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release	

COMPANY INFORMATION

Company name: SK Chemicals Co., Ltd

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SECTION 2: HAZARDS IDENTIFICATION

Classification:

1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol (CAS No. 25038-91-9) is not classified according to Regulation (EC) 1272/2008 and Directive 67/548/EEC.

Labelling: Not applicable

SECTION 3: COMPOSITION	ON 3: COMPOSITION / INFORMATION ON INGREDIENTS		
Component	Conc ⁿ / %	CAS / EC #	Classification
1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol	≥ 99.9	25038-91-9 / -	See section 2

SECTION 4:	FIRST AID MEASURES
After skin contac	t: - Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes.
	 Get medical attention if skin symptoms occurred.
	- Wash contaminated clothing and shoes before reuse.
After eye contact	 - Keep away from exposure if exposure effect occurred. - In case of contact with substance, flush eyes with amount of water for at least 15 minutes. - In case of contact with chemicals, get medical advice/attention.
After ingestion:	- Get medical attention if swallowed amount of substance.

- Get medical attention if irritation or symptoms occurred.

After inhalation: - Move victim to non-contaminated place in fresh air.

- Get medical attention if irritation or symptoms occurred.

- Give artificial respiration if victim is not breathing.

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 quickly as possible with

water, and then go to see a physician for treatment of burn.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media:

o Suitable extinguishing media: CO2, water, sand

Special fire-fighting procedures:

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

Special exposure hazards:

- o Thermal decomposition products: Not available
- o Hazardous combustion products: CO2, CO
- o Fire or explosion: Containers may explode when heated.
- o Unusual fire and explosion hazards: No explosion hazards

Sensitivity to static discharge: Not available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:

- Stop leak if you can do it without risk.
- Isolate exposed area.
- Keep unauthorized personnel away.
- Use certificated protective equipment.
- Ventilate the leaked area.

Methods for cleaning up / removal:

- Do not touch or walk through spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7: HANDLING AND STORAGE

Handling:

- Wash thoroughly after handling.
- Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures.

Prevention of Fire and Explosion: Not available

Storage:

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

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limits / standards:

Specific exposure limits have not been established or are not applicable unless listed below.

o Regulation in Korean: Not available

US (NIOSH, OSHA, AGGIH):

- NIOSH- TWA: Not available

- OHSA- TWA: Not available

- ACGIH- TWA: Not available

EU Regulation: Not available

o Biological Exposure Index: Not available

Engineering Controls:

- Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Mechanical ventilation should be used during processing to remove any dusts, mists, or vapors which may be generated.
- Check legal suitability of exposure level.

Personal Protection:

Respiratory Protection:

- Wear NIOSH or European Standard EN 149 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 when working with molten material.

Skin Protection

- Wear chemical resistant gloves to avoid direct contact with chemical substance.
- Wear appropriate protective chemical resistant clothing to prevent exposure of skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless solid (pellets)

Odor Slight odor Not applicable pH:

Melting / freezing point: Softening point >100 °C

Not applicable Initial boiling point and boiling range: Flash point Not available Flammability: Not available Evaporation rate Not available Upper/lower flammability or explosive Not available

limits

Negligible (20 °C) Vapor pressure: Vapor density: Not available Water solubility: Negligible 1.27 g/ml (25 °C) Density:

Specific gravity: > 1

Log partition coefficient Not available

(n-octanol/water):

Auto ignition temperature: 454 °C (ASTM E659)

Decomposition temperature: Not available Viscosity: Not available

SECTION 10: STABILITY AND REACTIVITY

Stability: Not available

Conditions to avoid:

- Avoid contact with incompatible materials.
- Avoid release to the environment.

Materials to avoid: Not available

SECTION 11: TOXICOLOGICAL INFORMATION

	Conclusion / Remarks
(a) Acute toxicity;	Not available
(b) Skin corrosion/irritation;	Not available
(c) Serious eye damage/irritation;	Not available
(d) Respiratory or skin sensitization;	Not available
(e) Germ cell mutagenicity;	Not available
(f) Carcinogenicity;	IARC, NTP, OSHA, ACGIH, EU Regulation 1272/2008, US EPA: not listed
(g) Reproductive toxicity;	Not available
(h) STOT-single exposure;	Not available
(i) STOT-repeated exposure;	Not available
(j) Aspiration hazard.	Not available

SECTION 12: ECOLOGICAL INFORMATION

	Conclusion / Remarks	
12.1 Toxicity	Not available	
12.2 Persistence and degradability	Not available	
12.3 Bioaccumulative potential	Not available	
12.4 Mobility in soil	Not available	
12.5 Results of PBT and vPvB	Not available	
assessment	INOL available	
12.6 Other adverse effects	Not available	

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method

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

Disposal precaution

- Consider the require attentions in accordance with waste treatment management regulation.

SECTION 14: TRANSPORT INFORMATION

UN #: Not regulated as a hazardous material.

Class: Not applicable
Proper shipping name: Not applicable
Packing group: Not applicable
Marine pollutant Not applicable
Other information: Not applicable

SECTION 15: REGULATORY INFORMATION

Dangerous as defined by the EU CLP 2008:

Labelling: Not applicable

Signal word: Not applicable

Hazard statement: Not applicable

Additional precautionary statements: Not applicable

SECTION 16: OTHER INFORMATION

Product safety data sheet for 1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol prepared in accordance with Annex II of the REACH Regulation EC 1907/2006, Regulation (EC) 1272/2008.

Version: 1.0/EN

Revision date: 21 February 2011

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.