

SAFETY DATA SHEET

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

A. GHS product identifier : [1] SKYGREEN® K2012, K2012-I, K2012-YJD, K2012E, KN100, DB7430, DB7430SP, K100up, SG7436, S2008, S2008-YJD, S2008-SZ, PN100, PN100-SZ, YN100, Lumina, J2003, J2003-SZ, JN100, SF200, SF700, P-SF, P-SF2.

[2] SKYGREEN® KN200, K2012-YS, KN400, SN200, PN200, PN200-N2, PN200-L, PN200(PG), PN300, PN303, PN400, PN400-K, PN401, PN402, SNP600, FN200, TD400, JN200, JN200(DY), JN200-1, JN200-GP, JN200K, JN200(N), JN200T, JN300, JN400.

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 Co., Ltd.

Address : 310 Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea / 13494

Emergency phone number : +82-2-2008-2008

Fax : +82-2-2008-2009

2. Hazards identification

A. GHS classification of the substance/mixture

Not classified according to OSHA 29 CFR 1910.1200

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 | PETG or PCTG | proprietary | 100 |

B. Substance [2]

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

4. First aid measures

A. Eye contact

- In case of contact with substance, immediately flush eyes with running water at least 20 minutes.

B. Skin contact

- In case of contact with substance, immediately flush skin with running water at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash contaminated clothing and shoes before reuse.
- Get immediate medical advice/attention.

C. Inhalation

- Specific medical treatment is urgent.
- Move victim to fresh air.
- Administer oxygen if breathing is difficult.

D. Ingestion

- Do not let him/her eat anything, if unconscious.
- Get immediate medical advice/attention.

E. Indication of immediate medical attention and notes for physician

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

F. Most important symptoms and effects, both acute and delayed

- Not available.

5. Fire fighting measures

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2
- Unsuitable extinguishing media: High pressure water streams

B. Specific hazards arising from the chemical

- May be ignited by heat, sparks or flames.

- Containers may explode when heated.
- Some of these materials may burn, but none ignite readily.
- If inhaled, may be harmful.
- Fire will produce irritating and/or toxic gases.

C. Special protective equipment and precautions for fire-fighters

- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks; Always stay away from tanks engulfed in fire.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

- Eliminate all ignition sources.
- Stop leak if you can do it without risk.
- Please note that materials and conditions to avoid.
- Ventilate the area.
- Do not touch or walk through spilled material.
- Prevent dust cloud.

B. Environmental precautions and protective procedures

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

C. The methods of purification and removal

- Small Spill; Flush area with flooding quantities of water. And take up with sand or other non-combustible absorbent material and place into containers for later disposal.
- Large Spill; Dike far ahead of liquid spill for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

7. Handling and storage

A. Precautions for safe handling

- Please note that materials and conditions to avoid.
- Wash thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.
- Be careful to high temperature.

B. Conditions for safe storage

- Store in a closed container.

- Store in cool and dry place.

8. Exposure controls/personal protection

A. Occupational Exposure limits

ACGIH regulation : Not available

Biological exposure index : Not available

OSHA regulation : Not available

NIOSH regulation : Not available

EU regulation : Not available

Other : Not available

B. Appropriate engineering controls

- Provide local exhaust ventilation system or other engineering controls to keep any airborne contamination below the respective threshold limit value.

C. Personal protective equipment

Respiratory Protection:

- Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.
- In case exposed to particulate material, the respiratory protective equipments as follow are recommended. ; facepiece filtering respirator or air-purifying respirator, high-efficiency particulate air(HEPA) filter media or respirator equipped with powered fan, filter media of use(dust, mist, fume)
- In lack of oxygen(< 19.5%), wear the supplied-air respirator or self-contained oxygen breathing apparatus..

Eye protection

- Wear facepiece with goggles to protect.
- An eye wash unit and safety shower station should be available nearby work place.
- Wear breathable safety goggles to protect from particulate material causing eye irritation or other disorder.
- An eye wash unit and safety shower station should be available nearby work place.

Hand protection

- Wear chemical resistant gloves.
- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

Body protection

- Wear appropriate protective chemical resistant clothing.
- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

9. Physical and chemical properties

A. Appearance

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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

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 and Possibility of hazardous reactions

- Fire may produce irritating and/or toxic gases.
- Inhalation of material may be harmful.

B. Conditions to avoid

- Ignition sources (heat, sparks or flames)

C. Incompatible materials

- Combustibles

D. Incompatible materials

- Irritating and/or toxic gases

11. Toxicological information

A. Information on the likely routes of exposure : Not available

B. Information of Health Hazardous

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Acute toxicity

Oral : Not available

Dermal : Not available

Inhalation : Not available

Skin corrosion/ irritation : Not classified

Serious eye damage/ irritation : Not classified

Respiratory sensitization : Not available

Skin sensitization : Not available

Carcinogenicity : Not available

Mutagenicity : Not classified

Reproductive toxicity : Not available

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeat exposure) : Not classified

Aspiration Hazard : Not available

12. Ecological information

A. Ecological toxicity

- Acute toxicity : Not available

Fish : Not available

crustacean : Not available

Algae : 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 biodegradable.

D. Mobility in soil : Not available

E. Other hazardous effect : Not available

F. Hazardous to the ozone layer : Not classified

13. Disposal considerations

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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 : Not applicable

B. UN Proper shipping name : Not applicable

C. Transport Hazard class : Not applicable

D. Packing group : Not applicable

E. Environmental hazards : Not applicable

F. Special precautions

in case of fire : Not applicable

in case of leakage : Not applicable

15. Regulatory information

① U.S.A Regulatory information

Section 8(b) Inventory (TSCA)

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

External information

Substance of Rotterdam Convention : Not regulated

Substance of Stockholm Convention : Not regulated

Substance of Montreal Protocol : Not regulated

16. Other information

A. Information source and references

- American Conference of Governmental Industrial Hygienists TLVs and BEIs.
- NIOSH Pocket Guide; <http://www.cdc.gov/niosh/npg/npgdcas.html>
- National Toxicology Program; <http://ntp.niehs.nih.gov/results/dbsearch/>

- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans;
<http://monographs.iarc.fr>
- EU CLP; <https://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- TOMES-LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>

B. Issuing date : 05/March/2020

C. Revision number and date

revision number : 0

date of the latest revision : 05/March/2020

D. Others

- Revised 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 U.S. OSHA 29 CFR 1910.1200.
- 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 special 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.
- The content of the SDS may vary depending on the country or the region and may not coincide with the actual regulations. Therefore, the buyer or the processor of the chemical is responsible for observing responsible government's or the region's regulations.