

SAFETY DATA SHEET

Revision date: 2025-02-26

Version: SLM891(90).4

1. IDENTIFICATION

- A. Product name : Solumer 891
- B. Recommended use and restriction on use
- General use : For industrial conversion as a raw material for manufacture of articles or goods
 - Restriction on use : Any use without agreement with KNC
- C. Manufacturer / Supplier / Distributor information
- ☐ Manufacturer information
- Company name
SK Geocentric Co.,Ltd.
 - Address
Office) 51, Jong-ro, Jongno-gu, Seoul, Korea
Plant) 2, Sinyecheon-ro, Nam-gu, Ulsan, Korea
R&D) 325, Exporo, Yuseong-gu, Daejeon, Korea
 - Dept.
Safety Health Environment Team
 - Telephone number :
 - Emergency telephone number
Plant) 82-52-208-2114
 - Fax number :
 - E-mail address :
- ☐ Supplier/Distributor information
- Company name
SK Geocentric Co.,Ltd.
 - Address
Office) 51, Jong-ro, Jongno-gu, Seoul, Korea
Plant) 2, Sinyecheon-ro, Nam-gu, Ulsan, Korea
R&D) 325, Exporo, Yuseong-gu, Daejeon, Korea
 - Dept.
Safety Health Environment Team
 - Telephone number :
 - Emergency telephone number
Plant) 82-52-208-2114
 - Fax number :
 - E-mail address :

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.	%[weight]
Ethylene-1-octene copolymer		26221-73-8	≥ 99 %
Non-hazardous additive mixture		-	≤ 1%

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.
- Wash contaminated clothing thoroughly before re-using.

C. Inhalation contact

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

D. Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

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

- No data available

F. Notes to physician

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

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

- Pyrolysis or combustion may produce irritating gases and carbon oxides.

C. Special protective actions for firefighters

- Move containers from fire area, if you can do without the risk.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.
- Avoid inhalation of materials or combustion by-products.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Ventilate closed spaces before entering.
- Must work against the wind, let the upwind people to evacuate.
- Do not touch spilled material. Stop leak if you can do it without risk.
- Remove all sources of ignition.

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.
- Notify the central and local government if the emission reaches the standard threshold.
- 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.
- Put the spilled material in an appropriate containers and clean the contaminated area

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Comply with all applicable laws and regulations for handling
- Get the manual before use.
- Refer to Engineering controls and personal protective equipment.

B. Conditions for safe storage, including any incompatibilities

- Keep in the original container.
- Please pay attention to incompatibilities materials and conditions to avoid.
- Keep sealed when not in use.
- No open fire.
- Prevent static electricity and keep away from combustible materials or heat sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

○ ACGIH TLV

- No data available

○ OSHA PEL

- No data available

B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

C. Individual protection measures, such as personal protective equipment

○ Respiratory protection

- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Dust, mist, fume-purifying respiratory protection
- Air-purifying respirator with high-efficiency particulate filtering
- 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

- None

9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance

- Appearance : Solid (pellet)
- Color : None to white

B. Odor

: Odorless

C. Odor threshold

: No data available

D. pH

: No data available

E. Melting point/Freezing point

: Tm: 40-85°C

F. Initial Boiling Point/Boiling Ranges

: Not applicable

G. Flash point	: No data available
H. Evaporation rate	: No data available
I. Flammability(solid, gas)	: No data available
J. Upper/Lower Flammability or explosive limits	: No data available
K. Vapour pressure	: Not applicable
L. Solubility	: Soluble in xylene, toluene, trichloroethylene, mineral oil
M. Vapour density	: Not applicable
N. Specific gravity(Relative density)	: < 0.890 g/cc
O. Partition coefficient of n-octanol/water	: No data available
P. Autoignition temperature	: 350°C
Q. Decomposition temperature	: No data available
R. Viscosity	: ≥ 100 Pa.s at 100 1/s, 190°C
S. Molecular weight	: > 10,000 g/mol, estimated

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 heat, sparks, flame or other ignition sources.

D. Incompatible materials

- No data available

E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

☐ (Respiratory tracts)

- No data available

☐ (Oral)

- No data available

☐ (Eye· Skin)

- No data available

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

☐ Acute toxicity

* Oral

- No data available

* Dermal

- No data available

* Inhalation

- No data available

☐ Skin corrosion/irritation

- No data available

☐ Serious eye damage/irritation

- No data available

☐ Respiratory sensitization

- No data available

☐ Skin sensitization

- No data available

☐ Carcinogenicity

* IARC

- No data available

* OSHA

- No data available

* ACGIH

- No data available

*** NTP**

- No data available

*** EU CLP**

- No data available

☐ **Germ cell mutagenicity**

- No data available

☐ **Reproductive toxicity**

- No data available

☐ **STOT-single exposure**

- No data available

☐ **STOT-repeated exposure**

- No data available

☐ **Aspiration hazard**

- No data 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

- Incineration or other similar processes can be used for disposal if two or more kinds of designated waste are mixed and it is difficult to treat separately.
- If separation of water is possible, pre-treat with water separation process.
- Dispose by incineration.

B. Special precautions for disposal

- The user of this product must dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

A. UN No. (IMDG CODE/IATA DGR)

- IMDG: Not classified as a dangerous good for transportation by IMDG
- IATA: Not classified as a dangerous good for transportation by IATA

B. Proper shipping name

- Not applicable

C. Hazard Class

- Not applicable

D. IMDG CODE/IATA DGR Packing group

- Not applicable

E. Marine pollutant

- 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 : F-A (General fire schedule)
- EmS SPILLAGE SCHEDULE : S-B (Corrosive substances)

15. REGULATORY INFORMATION

A. National and/or international regulatory information

☐ POPs Management Law

- Not applicable

☐ Information of EU Classification

*** Classification**

- Not classified under CLP

☐ U.S. Federal regulations

*** OSHA PROCESS SAFETY (29CFR1910.119)**

- Not applicable

*** CERCLA Section 103 (40CFR302.4)**

- Not applicable

*** EPCRA Section 302 (40CFR355.30)**

- Not applicable

*** EPCRA Section 304 (40CFR355.40)**

- Not applicable

*** EPCRA Section 313 (40CFR372.65)**

- Not applicable

☐ Rotterdam Convention listed ingredients

- Not applicable

☐ Stockholm Convention listed ingredients

- Not applicable

☐ Montreal Protocol listed ingredients

- Not applicable

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

2017-06-07

C. Revision number and Last date revised

Revision number : 4

Last date revised : 2025-02-26

D. Other

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