

SAFETY DATA SHEET

Version 6.6
Revision Date 2021.06.30
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Product Number Sigma - P2443

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- a. Product name : Pluronic® F-127
- Product Number : P2443
- Brand : Sigma
- b. Recommended use of the chemical and restrictions on use : **Identified uses**
Laboratory chemicals, For research use only.
- c. Company : 씨그마알드리치코리아(유)
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월요일 - 금요일 (공휴일 제외)

SECTION 2: Hazards identification**a. GHS Classification**

Not applicable

b. GHS-Labeling

Pictogram

Signal word Not applicable

Hazard statement(s)
Not applicable

Precautionary statement(s)

General advice

Not applicable

c. Other hazards which do not result in classification

none

SECTION 3: Composition/information on ingredients

3a Substances

Formula : (C₃H₆O.C₂H₄O)_x
CAS-No. : 9003-11-6
EC-No. : 618-355-0

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

a. In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

b. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

c. If inhaled

After inhalation: fresh air.

d. If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

e. Most important acute symptoms/effects

No data available

Most important delayed symptoms/effects

No data available

f. Notes to physician

No data available

SECTION 5: Firefighting measures

a. Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Extinguishing media which shall not be used for safety reasons

For this substance/mixture no limitations of extinguishing agents are given.

b. Specific hazards arising from the chemical

Combustible. Risk of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire.

c. Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

a. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

b. Environmental precautions

Do not let product enter drains.

c. Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

SECTION 7: Handling and storage

a. Precautions for safe handling

b. Conditions for safe storage

Tightly closed.

SECTION 8: Exposure controls/personal protection

a. Control parameters

Contains no substances with occupational exposure limit values.

b. Appropriate engineering controls

No data available

c. Personal protective equipment

Respiratory protection

Not required; except in case of aerosol formation.

Hand protection

not required

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: Physical and chemical properties

a. Appearance

Form	powder
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Color	colorless
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b. Odor	No data available
c. Odor Threshold	No data available
d. pH	6.0 - 7
e. Melting point	56.8 °C
f. Initial boiling point	> 149 °C
g. Flash point	Not applicable
h. Evaporation rate	No data available
i. Flammability (solid, gas)	No data available
j. Lower explosion limit	No data available
Upper explosion limit	No data available
k. Vapor pressure	< 0.1 hPa at 25 °C
l. Water solubility	No data available
m. Relative vapor density	No data available
n. Density	1.06 g/cm ³ at 25 °C
o. Partition coefficient: n- octanol/water	No data available
p. Autoignition temperature	No data available
q. Decomposition temperature	No data available
r. Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
s. Molecular weight	No data available

SECTION 10: Stability and reactivity

a. Chemical stability

No data available

b. Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents

c. Conditions to avoid

no information available

d. Incompatible products

No data available

e. Hazardous decomposition products

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Thermal decomposition

No data available

Contains the following stabilizer(s):

butyl hydroxytoluene (BHT) (≥ 0 - ≤ 0.01 %)

SECTION 11: Toxicological information**a. Information on likely routes of exposure**

No data available

b. Delayed and immediate effects and also chronic effects from short and long term exposure**Acute toxicity**

LD50 Oral - Rat - 5,700 mg/kg

Remarks: (RTECS)

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Eyes - Rabbit - No eye irritation - OECD Test Guideline 405

Respiratory or skin sensitization**Carcinogenicity**

No data available

Germ cell mutagenicity

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Signs and Symptoms of Exposure

Effects due to ingestion may include:, Diarrhea, Weakness

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

c. Numerical measures of toxicity

No data available

Additional Information

RTECS: MD0911050

SECTION 12: Ecological information

a. Ecotoxicity effects

No data available

b. Elimination information (persistence and degradability)

No data available

c. Bioaccumulative potential

No data available

d. Mobility in soil

No data available

e. Other adverse effects

No data available

SECTION 13: Disposal considerations

a. Disposal methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

a. Regulation under the Occupational Safety and Health Act

Harmful Substances Required Permission for Manufacture - Not applicable

Harmful Substances Prohibited from Manufacturing - Not applicable

Harmful Agents to be kept below Occupational Exposure Limits - Not applicable

Controlled Substances Subject to Environment Monitoring - Not applicable

Controlled Substances Subject to Health Examination - Not applicable

Hazardous substances requiring management - Not applicable
Special Management Materials - Not applicable

b. Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

Toxic Chemicals - Not applicable
Restricted Chemicals - Not applicable
Prohibited Chemicals - Not applicable
Accident Precaution Chemicals - Not applicable

c. Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

d. Waste Control Act

Follow article 13 of the act to dispose the product waste

e. Other regulations

KECI Number

On the inventory, or in compliance with the inventory

SECTION 16: Other information

a. List of references

b. Issuing date: 2018.12.14

c. Version: 6.6 Revision Date 2021.06.30

e. Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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