



Material Safety Data Sheet

1. Chemical product and company identification.

A. Product name	FPD-500
Recommended use of the product	Preservative
Restrictions on use of the product	No data
B. Company Identification	
Manufacturer	FTC Korea Co.,Ltd.
Address	39-8 Julteo-Gil, Yanggam-Myun, Hwaseong-Si, Gyeonggi-Do, Rep. of Korea
Emergency phone number	031)352-2450

2. Hazard identification

A. Health Hazards Serious eye damage/eye irritation: Category 1

B. GHS label elements, including precautionary statements

Pictograms



Signal words Danger

Hazard statements H318 Causes serious eye damage

Precautionary statements

Prevention P280 Wear (protective gloves/protective clothing/eye protection/face protection)

Response P310 Seek medical attention immediately.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Keep washing.

Storage P405 Keep sealed

Discard P501 Dispose of the contents container (according to the contents specified in the relevant laws and regulations)

C. Other hazards which do not result in classification (NFPA)

No data

3. Composition/information on ingredients

Material name	Common name	CAS No.	Content(%)
Pentane-1,2-Diol	Pentylene Glycol	5343-92-0	100

4. First aid measures

A. Eye contact	Rinse immediately and thoroughly with water for at least 15 minutes, including under the eyelids Get medical treatment
B. Skin contact	Immediately rinse off with plenty of water for at least 15 minutes Get medical treatment
C. Inhalation	Go to fresh air If breathing is difficult, give oxygen. Get medical treatment
D. Ingestion	Do not induce vomiting. Get medical treatment.

E. Other information

Call your doctor if symptoms persist

Show this to your doctor

5. Fire-fighting measures

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|--|---|
| A. Suitable extinguishing media | Suitable extinguishing media: water spray, foam, dry chemical or carbon dioxide. |
| B. Special hazards arising from the substance or mixture | Thermal decomposition can release irritating gases and vapors |
| C. Advice for fire-fighters | As with all fires, wear self-contained breathing apparatus pressure requirements, MSHA/NIOSH (approved or equivalent), and full protective equipment. |

6. Accidental release measures

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|---|--|
| A. Personal precautions and protective equipment | Check for adequate ventilation. Use personal protective equipment. |
| B. Environmental precautions | Should not be released into the environment. |
| C. Methods and material for containment and cleaning up | Absorb with an inert absorbent material. Store in a suitable, closed container for disposal. |

7. Handling and storage

- | | |
|----------------------------------|---|
| A. Precautions for safe handling | Wear personal protective equipment. Check for adequate ventilation. Do not get into your eyes, skin or clothing.

Avoid ingestion and inhalation. |
| B. Conditions for safe storage | Store in a cool, dry and well-ventilated place away from direct sunlight. Keep away from heat, sources of ignition and incompatible materials. Protect from damage. Inspect periodically for defects such as damage or leaks. Have an appropriate fire extinguisher in and near the storage area. |

8. Exposure controls/personal protection

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|---|--|
| A. Chemical exposure indices, Biological exposure indices | |
| ACGIH regulation | No data |
| Biological exposure criteria | No data |
| Other exposure criteria | No data |
| B. Appropriate engineering controls | Equipment that stores or uses this material should be equipped with a face wash and safety shower.

Equipment for storing or using this material should be equipped with cleansing equipment and safety showers |
| C. Individual protection measures | |
| Respiratory protection | Wear respiratory protective equipment certified by Korea Occupational Safety and Health Agency according to the gas/liquid physical and chemical properties exposed |
| Eye protection | Wear eye protection or breathable goggles to protect eyes from vaporous organic substances that can cause eye irritation or other health hazards

Install emergency washing and shower facilities in a location where workers can easily access them |
| Hand protection | Wear appropriate protective gloves by considering physical and chemical properties of chemicals |
| Body protection | Wear appropriate protective clothing by considering physical and chemical properties of chemicals |

9. Physical and chemical properties

- | | |
|----------------|--------|
| A. Appearance | |
| Physical state | Liquid |

Color	Colorless
B. Odor	Solvent odor
C. Odor threshold	No data
D. pH	6 ~ 8
E. Melting point/freezing point	No data
F. Boiling point	206 °C
G. Flash point	105 °C
H. Evaporation rate	No data
I. Flammability	No data
J. Upper/lower flammability	No data
K. Vapor pressure	No data
L. Solubility	No data
M. Vapor density	No data
N. Specific Gravity	0.971 (at 20°C)
O. n-Octanol/Water Distribution Coefficient	No data
P. Self-igniting	No data
Q. Decomposition Temperature	No data
R. Viscosity	No data
S. Molecular weight	No data

10. Stability and reactivity

A. Chemical stability & Possibility of hazardous reaction	It is stable at room temperature.
B. Condition to avoid	Heat, flames, ignition sources and incompatible substances.
C. Material to avoid	Strong oxidant
D. Hazardous decomposition products	No data

11. Toxicological information

A. Information on the likely routes of exposures	No data
B. Health hazardous information	
Acute toxicity	
Oral	No data
Dermal	No data
Inhalation	No data
Skin corrosion or irritation	No data
Serious eye damage or eye irritation	No data
Respiratory	No data
Skin sensitization	No data
Carcinogenicity	
IARC	No data
OSHA	No data
ACGIH	No data
NTP	No data
EU CLP	No data
Germ cell mutagenicity	No data
Reproductive toxicity	No data
Specific target organ toxicity (single exposure)	No data

Specific target organ toxicity (repeated exposure)	No data
Aspiration hazard	No data
Other hazard information	No data

12. Ecological information

A. Ecotoxicity	
Fish	No data
Crustacea	No data
Algae	No data
B. Persistence and degradability	
Persistence	No data
Degradability	No data
C. Bioaccumulative potential	
Condenasability	No data
Biodegradable	No data
D. Mobility in soil	No data
E. Other adverse effects	No data

13. Disposal consideration

A. Waste treatment methods	Dispose of as special waste according to local and national regulations. Store the material to be disposed of as indicated in the storage conditions. Disposal by controlled incineration or safe landfill may be acceptable.
B. Recommendation	Dispose of contents container (according to the description in the related regulation)

14. Transport information

A. UN number	Not applicable
B. UN proper shipping name	Not applicable
C. Transport hazard classes	Not applicable
D. Packing group	Not applicable
E. Marine pollutant	Not applicable
F. Special precautions for a user	
Extraordinary step in fire	Not applicable
Extraordinary step in spill	Not applicable

15. Regulatory informations

A. Occupation safety and health Act	Not applicable
B. Chemical substance Act	Not applicable
C. Hazardous Safety Control Law	Not applicable
D. Waste Control Law	Not applicable
E. Other regulation	
American Management information (OSHA regulations)	Not applicable
American Management information (CERCLA regulations)	Not applicable
American Management information (EPCRA 302 regulations)	Not applicable

American Management information (EPCRA 304 regulations)	Not applicable
American Management information (EPCRA 313 regulations)	Not applicable
American Management information (Rotterdam convention substance)	Not applicable
American Management information (Stockholm Convention substance)	Not applicable
American Management information (Montreal convention substance)	Not applicable
EU classified information (Dedined classification results)	Not applicable
EU classified information(risk word)	Not applicable
EU classified information(safety word)	Not applicable

16. Other information

A. The source of infirmation

ECHA(Crustacean)
 ECHA(Oral)
 ECHA(Dermal)
 ECHA(Other adverse effects)
 ECHA(Biodegradable)
 ECHA(Reproductive toxicity)
 ECHA(Germ cell mutagenicity)
 ECHA(Serious eye damage or irritation)
 ECHA(fish)
 ECHA(Persistence)
 ECHA(algae)
 ECHA(Specific Target Organ Systemic Toxicity (Single Exposure))
 ECHA(Specific Target Organ Systemic Toxicity (Repeated Exposure))
 ECHA(Skin sensitization)
 ECHA(Skin corrosion or irritation)
 ECHA(Inhalation)

B. First date of preparation	2020-12-22
Revision times	0
Final revision date	-

○ The prepared MSDS is the data edited and partially modified by referring to the MSDS provided by Korea Occupational Safety and Health Agency.