

Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **POLOXAMER 407**

Other name(s): Pluronic F 127; Pluronic F 127 Prill; Pluronic F 127 NF; Pluronic F 127 NF Prill Poloxamer 407

Recommended use of the chemical and restrictions on use: Cosmetic applications.

Supplier: Chanjao Longevity Co., Ltd.
Street Address: 50 Ramindra 14, Bangkok 10230 THAILAND

Telephone Number: **+66 2 002 7 002**

2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Based on available information, not classified as hazardous according to Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

Poisons Schedule (SUSMP): None allocated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS Number | Proportion | Hazard Codes |
|--|------------|------------|--------------|
| Oxirane, methyl-, polymer with oxirane | 9003-11-6 | 100% | - |

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre or a doctor.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation occurs seek medical advice.

Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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Ingestion:

Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.

Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Fine water spray. Foam. Dry sand. Dry agent (dry chemical powder).

Unsuitable Extinguishing Media:

Carbon dioxide.

Specific hazards arising from the substance or mixture:

Combustible solid. On burning will emit toxic fumes, including those of oxides of carbon .

Special protective equipment and precautions for fire-fighters:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions:

If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Wear protective equipment to prevent skin and eye contact and breathing in dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid skin and eye contact and breathing in dust.

Avoid handling which leads to dust formation. In common with many organic chemicals, may form flammable dust clouds in air. For precautions necessary refer to Safety Data Sheet "Dust Explosion Hazards". Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for particulates:

Dusts not otherwise classified: 8hr TWA = 10 mg/m³

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As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls:

Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.



Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state: | Powder , Coarse Particles , Waxy Type |
| Colour: | White |
| Odour: | Faint Specific |
| Solubility: | Soluble in water. |
| Specific Gravity: | approx. 0.5 g/cm ³ (Bulk Density) |
| Relative Vapour Density (air=1): | Not available |
| Vapour Pressure (20 °C): | Not available |
| Flash Point (°C): | >150 |
| Autoignition Temperature (°C): | >250 |
| Solubility in water (g/L): | >175 g/L @ 23°C |
| Melting Point/Range (°C): | 53 - 57 |
| Boiling Point/Range (°C): | Not available |
| pH: | 6 - 9 (50 g/L) |
| Partition Coefficient: | < -5 |

10. STABILITY AND REACTIVITY

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| Chemical stability: | Stable under normal conditions of use. |
| Possibility of hazardous reactions: | None known. |
| Conditions to avoid: | Avoid exposure to heat, sources of ignition, and open flame. Avoid dust generation. |
| Incompatible materials: | None known. |
| Hazardous decomposition products: | Oxides of carbon. |

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

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| Ingestion: | No adverse effects expected, however, large amounts may cause nausea and vomiting. |
| Eye contact: | May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes. |
| Skin contact: | Repeated or prolonged skin contact may lead to irritation. |
| Inhalation: | Breathing in dust may result in respiratory irritation. |
| Acute toxicity: | |
| Oral LD50 (rat): | > 10,000 mg/kg (1) |
| Dermal LD50 (rabbit): | > 5,000 mg/kg (1) |
| Skin corrosion/irritation: | Non-irritant (rabbit). (1) |
| Serious eye damage/irritation: | Non-irritant (rabbit). (1) |
| Chronic effects: | Non-mutagenic in bacteria. Non-mutagenic based on mammal cell tests. (1) |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | Avoid contaminating waterways. |
| Persistence/degradability: | Degree of Elimination: 3% (DOC Reduction, 24h) (1) The material is not readily biodegradable. (1) The product is not expected to bioaccumulate. (1) |
| Aquatic toxicity: | There is a high probability that this product is not acutely harmful to aquatic organisms. 96hr LC50 (Brachydanio rerio): > 10,000 mg/L (1) |
| Log Octanol/Water Partition Coefficient: | < -5 |

13. DISPOSAL CONSIDERATIONS

Disposal methods:
Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations.

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14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods for transport by Road and Rail; NON-DANGEROUS GOODS.

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Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Classification:

Based on available information, not classified as hazardous according to Safe Work; NON-HAZARDOUS SUBSTANCE.

Poisons Schedule (SUSMP): None allocated.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

(1) Supplier Safety Data Sheet; 10/ 2006.

PLURONIC is a registered trademark of BASF.

This safety data sheet has been prepared by Orica Toxicology & SDS Services.

Reason(s) for Issue:

Revised Primary SDS
Addition/Change of synonymous name(s)
Change in Formulation
Change in Fire Management Requirements
Addition of PPE pictogram(s)
Change in Physical Properties
Change in Stability and Reactivity
Update in Toxicological Information
Update in Ecological Information.

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This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace.