

1 - Product and Company Information

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| ProductName | 4-METHYLUMBELLIFERYL PHOSPHATE LIQUID SUBSTRATE SYSTEM TRU-MEASURE CHEMICAL |
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2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
Harmful by inhalation and if swallowed.

3 - Composition/Information on Ingredients

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|--|---------|-------|-------|---------|
| Product Name | | CAS # | EC no | Annex I |
| 4-METHYLUMBELLIFERYL PHOSPHATE LIQUID SUBSTRATE SYSTEM TRU-MEASURE CHEMICAL | | None | None | None |
| Ingredient Name | Percent | CAS # | EC no | Annex I |
| Information regarding the specific chemical identity of this material is being withheld as a trade secret of the manufacturer. | | None | None | None |

4 - First Aid Measures

AFTER INHALATION
If inhaled, remove to fresh air. If not breathing give
artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT
In case of skin contact, flush with copious amounts of water for
at least 15 minutes. Remove contaminated clothing and shoes.
Call a physician.

AFTER EYE CONTACT
In case of contact with eyes, flush with copious amounts of
water for at least 15 minutes. Assure adequate flushing by
separating the eyelids with fingers. Call a physician.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is
conscious. Call a physician immediately.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA
Suitable: Noncombustible. Use extinguishing media appropriate to
surrounding fire conditions.

SPECIAL RISKS
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing
to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy
rubber gloves.

METHODS FOR CLEANING UP
Absorb on sand or vermiculite and place in closed containers for
disposal. Ventilate area and wash spill site after material
pickup is complete.

7 - Handling and Storage

HANDLING
Directions for Safe Handling: Do not breathe vapor. Do not get
in eyes, on skin, on clothing. Avoid prolonged or repeated
exposure.

STORAGE
Conditions of Storage: Keep tightly closed. Store in the dark.
Store at 2-8°C

SPECIAL REQUIREMENTS: Light sensitive.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS
Use only in a chemical fume hood. Safety shower and eye bath.

GENERAL HYGIENE MEASURES
Wash contaminated clothing before reuse. Wash thoroughly after
handling.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Use respirators and components tested and
approved under appropriate government standards such as NIOSH (US)
or CEN (EU). Where risk assessment shows air-purifying respirators
are appropriate use a full-face respirator with multi-purpose
combination (US) or type ABEK (EN 14387) respirator cartridges as
a backup to engineering controls. If the respirator is the sole

means of protection, use a full-face supplied air respirator.
Hand Protection: Compatible chemical-resistant gloves.
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

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|-----------------------|------------------------|----------------------------|
| Appearance | Physical State: Liquid | |
| Property | Value | At Temperature or Pressure |
| pH | 9.8 - 10.0 | |
| BP/BP Range | N/A | |
| MP/MP Range | N/A | |
| Flash Point | N/A | |
| Flammability | N/A | |
| Autoignition Temp | N/A | |
| Oxidizing Properties | N/A | |
| Explosive Properties | N/A | |
| Explosion Limits | N/A | |
| Vapor Pressure | N/A | |
| Partition Coefficient | N/A | |
| Viscosity | N/A | |
| Vapor Density | N/A | |
| Saturated Vapor Conc. | N/A | |
| Evaporation Rate | N/A | |
| Bulk Density | N/A | |
| Decomposition Temp. | N/A | |
| Solvent Content | N/A | |
| Water Content | N/A | |
| Surface Tension | N/A | |
| Conductivity | N/A | |
| Miscellaneous Data | N/A | |
| Solubility | N/A | |

10 - Stability and Reactivity

STABILITY
Stable: Stable.
Conditions to Avoid: Light.
Materials to Avoid: Bases, Amines, Alkali metals Copper, Copper
alloys, Aluminum.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Hydrogen chloride gas, Nitrogen
oxides, Phosphorous oxides.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and
toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE
Skin Contact: Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes eye irritation.
Inhalation: Toxic if inhaled. Material is irritating to mucous
membranes and upper respiratory tract.
Ingestion: Toxic if swallowed.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL
Contact a licensed professional waste disposal service to dispose
of this material. Dissolve or mix the material with a combustible
solvent and burn in a chemical incinerator equipped with an
afterburner and scrubber. Observe all federal, state, and local
environmental regulations.

14 - Transport Information

RID/ADR
UN#: 1760
Class: 8
PG: II
Proper Shipping Name: Corrosive liquid, n.o.s.

IMDG
UN#: 1760
Class: 8
PG: II
Proper Shipping Name: Corrosive liquid, n.o.s.
Marine Pollutant: No
Severe Marine Pollutant: No
Technical Name: Required

IATA
UN#: 1760
Class: 8
PG: II
Proper Shipping Name: Corrosive liquid, n.o.s.
Inhalation Packing Group I: No
Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
INDICATION OF DANGER: Xn
Harmful.
R-PHRASES: 20/22
Harmful by inhalation and if swallowed.
S-PHRASES: 36
Wear suitable protective clothing.

16 - Other Information