

MATERIAL SAFETY DATA SHEET

MSDS CODE : 02F21B01/1

Issued October 29, 2002

1. PRODUCT NAME AND MANUFACTURER IDENTIFICATION

PRODUCT NAME : CREARLYTE4

MANUFACTURER : ION ELECTRODES LABORATORIES Co., Ltd.

ADDRESS : 1-6-6, Fujimidai, Kunitachi, Tokyo, 186-0003, Japan

EMERGENCY TELEPHONE NUMBER : 042-571-9122

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2. INGREDIENTS AND COMPOSITION RATE

Mixture of ingredients described below.

Water : H<sub>2</sub>O.....Approx.68%

Potassium Chloride : KCl.....Approx.20%  
CAS NUMBER : 7447-40-7  
TSCA INVENTORY : Listed  
EINECS NUMBER : 231-211-8

Salicylic Acid : C<sub>7</sub>H<sub>6</sub>O<sub>3</sub>.....Less than 0.05%  
CAS NUMBER : 69-72-7  
TSCA INVENTORY : Listed  
EINECS NUMBER : 200-712-3

Starch : (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>.....Approx.12%

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3. HAZARDS INFORMATION

Too much ingestion may cause acute syndrome or poisoning.

Contact with skin, eye or other mucous membranes may cause irritations.

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4. FIRST AID PROCEDURE

Skin contact : Wash off with soap and water.

Contact with eye or other mucous membrane

: Rinse well out with running water immediately.

Consult an eye doctor or other specialists if not getting better.

Ingestion : Give much water for dilution.

Consult a physician if in bad condition.

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#### 5. FIRE FIGHTING PROCEDURE

No special fire fighting procedure should be mentioned. The procedure rather should depend on other fire factors.

No critical chemical hazard for fire and explosion should be expected.

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#### 6. SPILL AND LEAKAGE PROCEDURE

Picked up material should be diluted with water and discharged.

Wipe off with wet cloth in case of a little amount of spill.

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#### 7. PRECAUTIONS AGAINST HANDLING AND STORAGE

Don't use with any other usage. (Usage only as electrolyte for chemical electrodes)

Don't mix with any other materials.

Avoid a long time contact with skin.

Keep in the refrigerator or in a dark and cool place.

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#### 8. SAFEGUARD FROM ACCIDENTS

Handle the material where there is tapwater facility.

Wear goggles, gloves or other according to circumstances.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Transparent and somewhat viscous fluid in appearance.

Change of color and decomposition may occur with a long lapse of time or according to storage conditions, a slight odor coming out simultaneously.

Freely soluble in water.

Nonflammable.

pH : 2.5~3(with no buffer-action)

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#### 10. STABILITY AND REACTIVITY

Reaction rate(i.e. change of color and decomposition) mainly depend on storage conditions(light and temperature).

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#### 11. TOXICOLOGICAL INFORMATION

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#### 12. ENVIRONMENTAL AND ECOLOGICAL INFORMATION

Biodegradable.

Disposal of much amount of this material with original concentration may only have any influences on nature temporarily.

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**13.WASTE DISPOSAL PROCEDURE**

Dilute the material with over 50 times quantity of water before discharging.

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**14.PRECAUTIONS AGAINST TRANSPORTATION**

Transport the material basically keeping the container dark and cool.

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**15.REGULATIONS CONCERNED**

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**16.OTHER INFORMATION**

We expect no trouble should occur concerning this material. But our information described above is not necessarily sufficient. And the above description should not guarantee any responsibility for any damage resulting from handling this material.

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