


 MATERIAL SAFETY DATA SHEET

 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : Propyl p-Hydroxybenzoate
 Product code : NPE-FP(UENO PROPYL PARABEN FP)
 Supplier : Ueno Fine Chemicals Industry, Ltd.
 2-4-8 Koraibashi, Chuo-Ku, Osaka 541-8543, Japan
 Emergency Telephone : 06-6203-6192

Distributed by:
The HalStar Company*
 120 S. Riverside Plaza
 Suite 1620
 Chicago, IL 60606
 Ph: 877-427-4255

*Affiliated companies include
 RTP*HalStar, Inc.,
 HalStar Solutions Corp.,
 Ester Solutions Company,
 Memphis Solutions Company, and
 Marine Magnesium & Minerals Company

 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance : Propyl p-Hydroxybenzoate 99.0% min.

| Chemical Name | CAS Number | EC Number | Symbol | R-Phrases |
|--------------------------|------------|-----------|--------|-----------|
| Propyl p-Hydroxybenzoate | 94-13-3 | 202-307-7 | - | - |

 3. HAZARD IDENTIFICATION

Physical/chemical hazards : Dust in confined conditions can be dangerous and
 may cause fire or explosion.
 Environmental hazards : Information not available
 Human health hazards : Slightly irritating to eyes and skin. Slightly cause
 coughing if inhaled.
 None-hazardous in terms of international
 regulation.

 4. FIRST AID MEASURES

Effects and symptoms

Ingestion : Numbed tongue. May cause vomiting if ingested large amount.
 Inhalation : Irritating to nose and throat. May cause coughing and nausea.
 Skin contact : Dust and long or repeated contact may irritate and cause sensitization.
 Eye contact : May cause irritation.

First aid measures

Ingestion : Give a plenty of water and call medical care. If fallen unconscious



or convulsion, get medical attention immediately.

Inhalation : Remove to fresh air. Call a physician.

Skin contact : Wash thoroughly with soap and rinse with plenty of water.

Eye contact : Directly flush with water and call an oculist.

5. FIRE FIGHTING MEASURES

Suitable : Powder fire extinguisher, CO2 foaming fire extinguisher, water.

Extinguishing media appropriate to surrounding materials.

Not suitable : None in particular

Special fire-fighting procedures : None in particular

Unusual fire-explosion hazardous : None in particular

Hazardous thermal (de)composition products : May evolve irritating or poisonous fumes.

Protection of fire-fighters : Fire protectors, gas mask, heat resistant gloves

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid inhalation and direct contact with skin and eye.

Environmental Precautions: Prevent entry into drains. Avoid creating dust.

Methods of Cleaning Up : Sweep up and put in seal tight container and
incinerate. Flush away residues with water.

7. HANDLING AND STORAGE

Handling : Wear protectors to avoid dust inhalation and direct contact
with skin and eyes.

Storage : To be stored under cool, dry and dark condition. Take
precautionary measures against static discharges.

Packing Materials

Suitable :

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



Engineering Measures : Mechanical extraction if the natural ventilation is poor.

Hygienic Measures : None in particular

Occupational Exposure: No occupational exposure limit is established by OSHA, limits ACGIH or NIOSH.

Personal protective equipment

Respiratory system : Dust respirator
 Skin and body : Arm protectors, Apron
 Hands : Rubber gloves
 Eyes : Goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Powder
 Color : White
 Odor : Odorless or faint characteristic odor
 Boiling Point : 133 deg. c(1mm Hg)
 Melting Point : 96 - 99 deg. c
 pH : slightly acidic
 Solubility in Water : 0.05 gm / 100 gm at 25 deg. c.
 Vapor Density(Air=1) : data not available
 Flash Point : 172 deg. c
 Autoignition Temperature : higher than 600 deg. c.
 Lower Explosion Limit : 15 mg / l
 Upper Explosion Limit : data not available

10. STABILITY AND REACTIVITY

Stability : Stable in ambient conditions.
 Conditions to avoid : Direct sunbeams, High humidity and water
 Materials to avoid : Alkaline substances, Strong oxidizers
 Hazardous Decomposition products: If involved in a fire, fumes with CO₂, CO or Phenol may be evolved.



11. TOXICOLOGICAL INFORMATION

Acute toxicity -

Oral : LD50 6000 mg/kg(mouse)

I.P. : LD50 200 mg/kg(mouse)

Inhalation : No significant toxic effect reported.

Eye irritation : Saturated aqueous solutions may cause moderate irritation.

Chronic toxicity - No adverse effect recognized on dogs that were fed 0.5 gm and 1.0 gm per 1 kg body weight for one year.

Feeds containing 2% and 8% Propylparaben had been given to two groups of rats for 96 weeks. There was no significant difference recognized in pathological tests between the two groups of the rats which were given the feeds with 2% and 8% Propylparaben except for the delay of increase of body weight on the rats in the group which had been given the feed with 8% Propylparaben.

Sensitization : Long term or repeated contact may cause sensitization

There was no sensitization found on human skin on which the gauze soaked with 12% solution of Propylparaben in Propylene Glycol had been applied for 5 days.

Carcinogenicity : Information not available

12. ECOLOGICAL INFORMATION

Ecotoxicity : Information not available

13. DISPOSAL CONSIDERATIONS

Method of disposal : Dissolve in flammable solvent and burn out in incinerator.



14. TRANSPORTATION INFORMATION

UN number : Not classified by UN.

Land-Road/Railway

ADR/RID Class : n/a

ADR/RIF Item Number : n/a

Inland Waterways

ADNR Class : n/a

Sea

IMDG Class : n/a

IMDG Page Number : n/a

Air

IATA-DGR Class : n/a

National transport : n/a

Regulations

15. REGULATORY INFORMATION

EC Regulations

EC Classification : n/a

Label Name : n/a

Hazard Symbols : n/a

Risk Phrases

R : n/a

Safety Phrases

S : S46 If swallowed, seek medical advice immediately and show this container or label.

National regulations : n/a



16. OTHER INFORMATION

History

Date first issue : March 1,2001

Date previous SDS : March 11, 2003

Revision : Rev.5

SDS prepared by : S. Ito, Quality Assurance Manager
Ueno Fine Chemicals Industry, Ltd.

Descriptions above are made up on the basis of the data and information currently available, and they may be revised at any moment in accordance with new knowledge, observations and examinations. However, we make no warranty, expressed or implied, as to composition, physical and chemical properties, hazards and toxicity data described above. Instructions and remarks made above are provided with a view to ordinary use and handling of the substance, whereas in the case of special handling of the substance, appropriate safety measures should be taken that suit the special application and usage.