

ATERIAL SAFETY DATA SHEET(MSDS)

Code Number	BSP-MSDS-M-8321	1/4	BYUCKSAN PAINT & COATINGS CO., LTD.BUSAN FACTORY ☎ 051)310-5760/5 FAX 051)311-5312
Date of revision	200 . . .	00	
Question DEP.	Technical R&D 1Team		

1. INFORMATION OF CHEMISTRY PRODUCTION AND MANUFACTURER

- A. Production name : EPILITE 832 Base
B. General chemical property : Form(Liquid), Color(BLUE), Odor(Like Aromatics)
C. Hazardous components : Exist
D. Use of production : Finish for steel, ship's topside and deck, wood surface
E. Manufacturer information : BYUCKSAN PAINT & COATINGS CO.,LTD. 950-1,
GAMJEON-DONG, SASANG-KU, BUSAN, KOREA
F. Supplier/Seller : "

2. HAZARDOUS SUBSTANCES

NAME	WEIGHT%	CAS NO
1. Xylene	10~20	1330-20-7
2. Iso butyl alcohol	1~5	78-83-1
3. Methyl ethyl ketone	5~10	78-93-3
4. Copper phthalocianine	1~5	147-14-8
5. Talc	5~15	14807-96-6
6. Pigment	Secret(1)	
7. Additive	1~5	
8. Epoxy resin	Secret(2)	

3. HARMFUL·DANGEROUSNESS

- Ignition
 Hazardous when skin contact or ingestion
 Hazardous when swallow
 Irritation at skin, eyes
 SECTION 2 consultation
 The others, a special case
 Carcinogen
Reference : Exist, No Exist

4. FIRST AID MEASURES

- A. Inhalation : Move affected person to fresh air immediately, Keep patient warm and at rest.
If breathing is difficult or has stopped apply artificial respiration and/or seek medical attention immediately.
If unconscious lay patient in a recovery position
- B. Skin : Contaminated clothing should be removed immediately and laundered.
Remove excess immediately with a cloth, clean with a suitable cleansing cream and/or wash with soap and water.
Seek medical attention immediately if any symptoms arise.

- C. Eyes : Rinse with plenty of clean water for 15 minutes.
Keep eyes open.
- D. Ingestion : Rinse mouth immediately and give water to drink.
Seek medical attention immediately or transport to hospital

5. FIRE-FIGHTING MEASURES

- A. Extinguishing media
Carbon dioxide, dry sand, powder or alcohol resistant foam.
- B. Exposure hazards
In case of fire carbon dioxides may be developed.
- C. Protection equipment
Wear self-contained breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

- A. Personal precautions
Ventilate area of spill.
Remove all persons not wearing suitable protective equipment
- B. Environmental precautions
Must not be allowed to enter sewers or bodies of water.
Warning of local authorities at accidental releases.
- C. Methods for cleaning
Dike and contain spill with inert, absorbing material and remove as chemical waste.

7. HANDLING AND STORAGE

- A. Handling
Avoid contact with skin, eyes and respiratory tract.
Ensure good ventilation or local exhaust.
Keep away from sources of ignition.
Take precautionary measures against static discharges.
- B. Storage
Store tightly closed in a cool and well ventilated place.
Keep away from reach of children

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure standard

ppm

NO	CAS NO	IND. SAFETY HEALTH LAW		OSHA		ACGIH		NIOSH	
		TWA	STEL	TWA	STEL	TWA	STEL	TWA	STEL
1	1330-20-7	100	150	100	150	100	150	100(10hrs)	150
2	78-83-1	50	-	50	-	50	-	50	-
3	78-93-3	200	300	200	300	200	300	200	300

B. Personal protection advice

WORKING ENVIRONMENT		
PAINT CELLS	CONTROLLED EFFICIENT VENTILATION	Gloves of nitrile rubber Face shield Protective clothing

OPEN AIR	LIMITED NATURAL VENTILATION	Gloves of nitrile rubber Safety goggles Protective clothing Half mask filter
CONFINED SPACES	LIMITED VENTILATION	Gloves of nitrile rubber Safety goggles Protective clothing Fresh air half mask

9. PHYSICAL AND CHEMICAL PROPERTIES

- A. Appearance : Liquid Blue
 B. Boiling point : No data
 C. Melting point : No data
 D. Vapour pressure : No data
 E. SP/GR at 25°C : 1.1-1.3
 F. Solubility(water) : N/A
 G. PH : N/A
 H. Viscosity at 25°C : 70-100Ku
 I. Flash point : 22°C

10. STABILITY AND REACTIVITY

- A. Condition to avoid :
 B. Materials to avoid : Cause exothermic reactions in contact with oxidizing agents, strong acids and amines.
 C. Hazardous decomposition products :

11. TOXICOLOGICAL INFORMATION

- A. Stimulus data
 -1330-20-7 : 200ppm, eye-human
 -78-83-1 : 80mg/24hrs, eye-human
 -78-93-3 : 350ppm, eye-human
 B. Toxicity data

CAS NO	oral vaccine-LD 50	skin contact-LD 50	ingestion-LC 50
1330-20-7	4,300mg/kg-mouse	1,700mg/kg-mouse	5000ppm/4hrs-human
78-83-1	2,460mg/kg-mouse	3,400mg/kg-rabbit	-
78-93-3	2,737mg/kg-mouse	6,480mg/kg-rabbit	23,000mg/m ³ /8hrs-mouse
147-14-8	> 5000mg/kg-rat	-	-

- C. Irritation data
 D. Carcinogen materials
 E. Health influence
 a. Inhalation : Inhalation of high vapour concentrations may cause headache, dizziness and drowsiness. May cause unconsciousness in serious cases.
 May cause birth defects and may impair fertility.
 b. Skin : May cause irritation.
 May cause cancer and sensitization
 c. Eyes : Irritating.
 d. Ingestion : May cause headache, dizziness, nausea, abdominal spasm and irritation of the mucous membranes.

12. ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Dispose of according to current local, state and federal regulations, e.g. burn in an approved and suitable incinerator.

14. TRANSPORT INFORMATION

A. ADR/RID

CLASS : LABEL : UN-CODE :

B. IMDG

CLASS : LABEL : UN-CODE : PCK-GROUP :

C. IATA

CLASS : UN-CODE : PCK-GROUP :

15. REGULATORY INFORMATION

See mixed product

16. OTHER INFORMATION

Pregnant women should not work with this product.

When burning off, flame cleaning and working in direct sunlight wear vapour impermeable clothing and well fitting fresh air helmet.

A. Draw up department and name : TECHNICAL R&D 1TEAM H.M. Kim

B. Draw up date : 2004. 5. 27.

※ The statement are made on the basis of the present state of knowledge.

They are meant to desirable the products with a view to safety requirements and therefore are not to the effect of guarantee certain properties