# MATERIAL SAFETY DATA SHEET

# 1. INFORMATION OF MANUFACTURER/SUPPLIER

NAME OF MANUFACTURER/SUPPLIER	:	CHUGOKU MARINE PAINTS	(SHANGHAI), LTD
ADDRESS OF MANUFACTURER/SUPPLIER	:	4677, Jiasong Road(North), Jiao	ling, Shanghai, 201814 China
NAME & TELEPHONE FOR ENQUIRY	:	TECHNICAL DEPARTMENT 8	36-21-59501635
EMERGENCY TEL NO	:	86-21-59501000	FAX NO : 86-21-59501300

### 2. PRODUCT IDENTIFICATION

NAME OF PRODUCT	: EPICON THINNER				
DESCRIPTION	: THINNER				
	HAZARDOUS INGREDIENTS				
NAME	CHEMICAL FORMULA	CONCENTRATION(%)	CAS NO	ACGIH(TLV)	LD50
XYLENE	C6H4(CH3)2	50 - 60	1330-20-7	100 ppm	4300 mg/kg
TOLUENE	C6H5(CH3)	10 - 20	108-88-3	50 ppm	5000 mg/kg
N-BUTYL ACETATE	CH3COOC4H9	10 - 20	123-86-4	20 ppm	14,000 mg/kg
IPA	(СНЗ)2СНОН	5 - 10	67-63-0	400 ppm	5045 mg/Kg
PGME	CH3OCH2CH(CH3)OH	5 - 10	107-98-2	100 ppm	5660 mg/kg

# 3. HEALTH HAZARD DATA

IN VIVO PATHWAY(HOST): (X)INHALATION (X)SKIN CONTACT (X)INGESTION				
ENVIRONMENTAL EFFECT :	TAKE PRE-CAUTION TO PREVENT CONTAMINATION TO SOIL AND WATER			
PHYSICAL AND CHEMICAL HAZARDS :	MAY CAUSE IRRITATION TO SKIN , EYE AND RESPIRATORY SYSTEM.			
HUMAN HEALTH EFFECTS	ACUTE: ALLERGIC & SENSITIZING EFFECT			
	BENIGN: SUSPECTED HAZARD TO HUMAN HEALTH			
SPECIAL HAZARDS:	ACCUMULATION OF VAPOR MAY RESULT IN EXPLOSION.			
CLASSIFICATION OF HAZARDS :	FLAMMABLE LIQUID			
MAJOR SYMPTOMS :	MAY CAUSE IRRITATION TO SKIN , EYE AND RESPIRATORY SYSTEM.			

#### 4. FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES:

INGESTION - SEEK MEDICAL ADVICE

INHALATION - REMOVE INTO FRESH AIR. LOOSEN COLLAR KEEP AT REST

SPLASHES TO SKIN - REMOVE CONTAMINATED CLOTHING.

- WASH WITH SOAP, WATER OR INDUSTRIAL CLEANSER. DO NOT USE SOLVENT.

EYE - FLUSH THOROUGHLY WITH RUNNING WATER. SEEK MEDICAL ADVICE

PROTECTION TO RESCUE PERSONNEL: USE SUITABLE PROTECTIVE EQUIPMENTS

ADVICE TO DOCTOR: N/A

# 5. FIRE AND EXPLORATION HAZARD DATA

EXTINGUISHING MEDIA : ( )WATER ( X )CO2 ( X )FOAMS ( X )DRY SAND

(X)CHEMICAL POWDER

FIRE FIGHTING MEASURES : 1. FIRE FIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENTS.

: 2. REMOVE IMFLAMMABLE MATERIALS NEAR FIRE IMMEDIATELY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: ACCUMULATION OF VAPORS MAY RESULT IN EXPLOSION.

SPECIAL FIRE FIGHTING PROTECTION EQUIPMENTS : USE PROPER PROTECTIVE EQUIPMENTS

# 6. SPILL AND LEAKAGE PROCEDURES

PROTECTION TO PEOPLE	CLEANER SHOULD WEAR PERSONAL PROTECTIVE EQUIPMENT
PROTECTION TO ENVIRONM	SLUDGE SHALL BE KEPT IN CONTAINER & SEALED
CLEAN -UP	SPILLAGE OR LEAKAGE SHOULD BE CLEAN WITH PROPER MATERIAL AND THE WASTE
	SHOULD BE DISPOSE IN ACCORDANCE TO ALL LOCAL REGULATIONS.

# 7. HANDLING AND STOAGE MEASURES

PRECAUTIONS IN	1. KEEP CONTAINER TIGHTLY CLOSED
HANDLING & STORAGE	2. KEEP AWAY FROM HEAT & FIRE
	3. DON'T MIX WITH FOREIGN MATERIALS
	4. KEEP IN COOL, DRY AREA
	5. AVOID PHYSICAL DAMAGE SUCH AS KNOCKING

# 8. EXPOSURE PREVENTION MEASURES

PERSONAL PROTECTIVE	EYE : WEAR PROTECTIVE GOGGLES		
EQUIPMENT	RESPIRATORY : USE A RESPIRATORY MASK FOR ORGANIC SOLVENT GASSES		
	GLOVES : WEAR PROTECTIVE GLOVES		
	OTHERS : WORKER SHOULD WEAR OVERALL WORKING SUIT & SAFETY SHOES		
ENGINEERING MEASURES :	VENTILATION EQUIPMENT :		
	1. USE EXPLOSION PROFF EXHAUST VENTILATION		
	2. USE NONSPARK CLOSED TYPE GROUND VENTILATION SYSTEM		
CONTROL PARAMETER :	THRESHOLD LIMITED VALUE AND	PLEASE REFER TO SECTION 2 - PRODUCT	
	BIOLOGICAL INDICATORS :	IDENTIFICATION ( HAZARDOUS INGREDIENTS )	
PERSONAL HYGIENE	1. WEAR PERSONAL PROTECTIVE EQUIPMENT		
	2. WASH EXPOSED BODY PARTS AFTER OPERATIONS		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE :		PH VALUE: -	
( )SOLID ( X )LIQUID ( )GAS		APPEARANCE CLEAR LIQUID	
( )PASTE ( )	)POWDER		ODOR: SOLVENT SMELL
MELTING POINT: - °C	MELTING POINT: - °C BOILING POINT: 82.4 - 144.4 °C		VAPOUR PRESSURE: 4266pa (20oC)
DECOMPOSITION TEMPERATURE :		AUTOIGNITION TEMPERATURE : - °C	
VAPOUR DENSITY (AIR=1) : >1		SPECIFIC DENSITY (WATER=1): 0.84 - 0.88	
EVAPORATION RATE : >1		SOLUBILITY IN WATER:	INSOLUBLE
FLASH POINT 28.0	°C (CLOSED CUP)	EXPLOSION LIMIT: 1.1-15%	
	'	(LEL) (U	JEL)

# 10. REACTIVITY AND STABILITY PROPERTIES

STABILITY: (X)STABLE	( )UNSTABLE	
HAZARDOUS POLYMERIZATION:	( )POSSIBLE	( X )IMPOSSIBLE
HAZARDOUS DECOMPOSED PRODUCTS:	NONE	
SPECIAL HAZARDS EFFECT :	ACCUMULATION OF VAPOR MAY RESUI	LT IN EXPLOSION.
CONDITIONS TO AVOID: HEAT, SPARI	K & FLAME	
MATERIALS TO AVOID : STRONG OXI	IDIZED AGENTS	

### 11. TOXICOLOGICAL INFORMATIONS

ACUTE TOXICITY : MAY CAUSE SKIN, EYE AND RESPIRATORY IRRITATION.		
ALLERGENIC AND SENSITIZING EFFECTS : MAY CAUSE EYE, SKIN & RESPIRATORY IRRITATION ON PROLONGED OR		
REPEATED EXPOSURE.		
CHRONIC TOXICITY : MAY CAUSE ALLERGIC SKIN REACTION.		
SIGNS OR SYMPTOMS : SKIN, EYE AND RESPIRATORY IRRITATION.		
PLEASE REFER TO HAZARDOUS INGREDIENTS UNDER SECTION 2 : PRODUCT IDENTIFICATION		

# 12. ECOLOGICAL INFORMATIONS

ENVIRONMENTAL EFFECTS	SPECIAL ATTENTION AND PRECAUTION SHOULD BE TAKEN FOR LEAKAGE AND
	DISPOSAL AS TO PROTECT THE ENVIRONMENT.

# 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS :	DISPOSING OF THIS MATERIAL / CONTAINER SHOULD FOLLOW ALL LOCAL REGULATIONS
	OR THROUGH AN AUTHORISED WASTE COLLECTORS IN YOUR COUNTRY.

# 14. TRANSPORTATION INFORMATION

(UN NO): 1263	CLASSIFICATION OF HAZARD	: FLAMMABLE LIQUID	(HAZARD LABELS): 3.3

# 15. REGULATORY INFORMATIONS

ALL REGULATORY INFORMATION WITH REGARD TO THIS SUBSTANCE IN YOUR COUNTRY OR YOUR REGION SHOULD BE EXAMINED BY YOUR RESPONSIBILITY.

### 16. FURTHER INFORMATIONS

REFERENCE MATERIAL :	PLEASE REFE	R TO THE REFERENCE LIST BELOW.
SECTION CONCERNED	NAME	: CHUGOKU MARINE PAINTS (SHANGHAI), LTD
	ADDRESS	: 4677, Jiasong Road(North), Jiading, Shanghai, 201814 China
	TELEPHONE	: 86-21-59501635
PERSON IN CHARGE	NAME	: Ms.Shen Lan
	DESIGNATIO:	Y: QA MANAGER
DATE PREPARED	YEAR : 2008	MONTH: 3 DATE: 3TH

#### REFERENCE LIST:

- RAW MATERIAL DATA BASE (JAPANESE PAINT MANUFACTURERS ASSOCIATION)
- SOLVENT POCKET BOOK (YUUKIE KAGAKU KYOKAI)
- INTERNATIONAL CHEMICAL SUBSTANCE SAFETY CARD ( KAGAKU KOGYO NIPPON)
- REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCE (NIOSH)
- ACGIH: 1990-1991 THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS.
- HAND BOOK OF HAZARDS AND HARM OF CHEMICAL SUBSTANCE ( CHUOH RODOHSAIGAI BOHSHI KYOKAI)
- DATA BOOK OF HAZARDOUS SUBSTANCE ( MARUZEN)

#### REMARKS:

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