Revised Date Set Up Date

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

[I.PRODUCT AND COMPANY IDENTIFICA	HUN
PRODUCT NAME :	POIRENATE
SUPPLIER :	Kao Corporation
ADDRESS :	1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
DIVISION :	Global Chemical Business
TELEPHONE NUMBER :	81-3-5630-7700
FAX NUMBER :	81-3-5630-7889
	chemical@kao.co.jp
EMERGENCY TELEPHONE NUMBER :	81-3-5630-7700
RECOMMENDED USE : AND RESTRICTIONS ON USE	
[2.HAZARDS IDENTIFICATION]	
GHS CLASSIFICATION	
PHYSICAL AND CHEMICAL HAZARDS :	Not classified
HEALTH HAZARDS	
ACUTE TOXICITY (Oral) :	Not classified
ACUTE TOXICITY (Dermal) :	Not classified
ACUTE TOXICITY (Inhalation) :	
SKIN CORROSION / IRRITATION :	Not classified
SERIOUS EYE DAMAGE / EYE : IRRITATION	Not classified
RESPIRATORY SENSITIZATION :	Classification not possible
SKIN SENSITIZATION :	Classification not possible
GERM CELL MUTAGENICITY :	Classification not possible
CARCINOGENICITY :	Classification not possible
REPRODUCTIVE TOXICITY :	Classification not possible
SPECIFIC TARGET ORGAN TOXICITY	
- SINGLE EXPOSURE :	Classification not possible
- REPEATED EXPOSURE :	Not classified
ASPIRATION HAZARD :	Classification not possible
ENVIRONMENTAL HAZARDS	
HAZARDOUS TO THE AQUATIC ENVIR	RONMENT
	Category 2
	Category 2
- HAZARDOUS TO THE OZONE : LAYER	Classification not possible
GHS LABEL ELEMENTS	
PICTOGRAMS OR SYMBOLS	
SIGNAL WORD :	Not applicable
HAZARD STATEMENTS :	Toxic to aquatic life
	Toxic to aquatic life with long lasting effects
PRECAUTIONARY STATEMENTS	
PREVENTION :	Avoid release to the environment.
RESPONSE :	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of water and soap.
	Call a POISON CENTER or doctor if you feel unwell.

	Collect spillage.				
STORAGE					
DISPOSAL	Passed to a licensed waste contractor.				
SAFE HANDLING ADVICE	SAFE HANDLING ADVICE : Refer to SDS.				
[3.COMPOSITION / INFORMATION ON INGREDIENTS]					
	Substance				
INGREDIENTS AND CONCENTRATION RANGE	Ethyl 2-cyclohexyl propionate				
	2511-00-4				
[4.FIRST-AID MEASURES]					
IN CASE OF INHALATION	Remove person to fresh air and keep comfortable for breathing.				
IN CASE OF SKIN CONTACT	Gently wash with plenty of soap and water.				
IN CASE OF EYE CONTACT	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
IN CASE OF INGESTION	Call a POISON CENTER or doctor if you feel unwell.				
[5.FIRE-FIGHTING MEASURES]					
-	Powder, alcohol-resistant foam, carbon dioxide, sand				
NOT SUITABLE EXTINGUISHING MEDIA	No information available				
SPECIFIC HAZARDS	No information available				
SPECIFIC METHODS	Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible.				
	Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents.				
PROTECTION OF FIRE FIGHTERS	Use goggles in combination with dust mask, and other protections as appropriate to situation.				
[6.ACCIDENTAL RELEASE MEASURES]					
PERSONAL PRECAUTIONS,	Use goggles and protective gloves.				
PROTECTIVE EQUIPMENT AND	Large spills : Remove person to safety.				
	Ensure adequate ventilation.				
	Avoid release to the environment.				
METHODS FOR CLEANING UP	Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth.				
	Large spills: Dike spills and dispose of in safe area.				
PREVENTION OF SECONDARY HAZARDS	Keep away from sources of ignition and prepare extinguishing media.				
[7.HANDLING AND STORAGE]					
HANDLING					
TECHNICAL MEASURES	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.				
PRECAUTIONS	Keep away from source of ignition.				
SAFE HANDLING ADVICE	Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required.				
STORAGE	······································				
	Store container tightly closed in well-ventilated place. Keep away from source of ignition.				
SAFE PACKAGING MATERIALS	No information available				

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

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ENGINEERING MEASURES	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			
	Use an adequate ventilation.			
LIMIT VALUES				
ACGIH (TLV)	: Not established			
OSHA (PEL)	: Not established			
PERSONAL PROTECTIVE EQUIPMEN	Г			
RESPIRATORY PROTECTION	: Use as appropriate to situation.			
HAND PROTECTION	: Rubber gloves			
EYE PROTECTION	Safety glasses			
SKIN AND BODY PROTECTION	: Full-body suit			
HYGIENE MEASURES	: No information available			
[9.PHYSICAL AND CHEMICAL PROPER]	[IES]			
APPEARANCE				
PHYSICAL STATE	: Liquid			
COLOUR	: Colorless clear			
ODOUR	: Characteristic odour			
pH	: Not applicable			
SPECIFIC TEMPERATURES / TEMPER	••			
AT WHICH CHANGES IN PHYSICAL ST	TATE OCCUR			
BOILING POINT	: 218.4 - 225.1 °C (425.1 - 437.2 °F)			
MELTING POINT	: No information available			
FLASH POINT	: 109 °C (228.2 °F) (CLEVELAND open cup method)			
FLAMMABILITY OR EXPLOSIVE PROP	ERTIES			
FLAMMABILITY OR EXPLOSIVE LIMITS	: UPPER LIMIT : No information available LOWER LIMIT : No information available			
VAPOUR PRESSURE	: 21.9 Pa (25 °C) (77 °F)			
VAPOUR DENSITY	: No information available			
DENSITY (SPECIFIC GRAVITY)	: 0.942 g/mL (20.0 °C) (68 °F)			
SOLUBILITY				
WATER SOLUBILITY	: Poor			
WATER SOLUBILITY SOLVENT SOLUBILITY	: Poor : Soluble in ethyl alcohol			
SOLVENT SOLUBILITY PARTITION COEFFICIENT: n-				
SOLVENT SOLUBILITY PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow)	: Soluble in ethyl alcohol			
SOLVENT SOLUBILITY PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow) AUTO-IGNITION TEMPERATURE	Soluble in ethyl alcohol4.03No information available			
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HAZARDOUS DECOMPOSITION PRODUCTS	:	Carbon dioxide
OTHERS	:	No information available
[11.TOXICOLOGICAL INFORMATION] ACUTE TOXICITY Oral		
INFORMATION ON PRODUCT Dermal	:	Rat, LD50 : 5 g/kg
INFORMATION ON PRODUCT Inhalation	:	Rat, LD50 : > 2 g/kg
INFORMATION ON PRODUCT	:	Rat, LC50 : > 5.4 mg/L/4h
SKIN CORROSION / IRRITATION		
INFORMATION ON PRODUCT	:	Rabbit, undiluted, 4 hours semi-occluded application test (EEC method) : Not classified
SERIOUS EYE DAMAGE / IRRITATION		
INFORMATION ON PRODUCT		Rabbit, undiluted, EEC method : Not classified
RESPIRATORY OR SKIN SENSITIZATIO RESPIRATORY	NC	
INFORMATION ON PRODUCT SKIN	:	No information available
INFORMATION ON PRODUCT	:	No information available
MUTAGENICITY (GERM CELL MUTAGE	ENI	CITY)
INFORMATION ON PRODUCT	:	No information available
CARCINOGENICITY		
INFORMATION ON PRODUCT	:	No information available
IARC	:	Not listed
NTP	:	Not listed
EU	:	Not listed
OSHA	:	Not listed
REPRODUCTIVE TOXICITY		
INFORMATION ON PRODUCT	:	No information available
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE		
INFORMATION ON PRODUCT	:	No information available
- REPEATED EXPOSURE		
INFORMATION ON PRODUCT	:	Rat, 28 days repeated dose oral toxicity test (OECD407) : NOTEL (no observed toxic effect level) = 150 mg/kg/day
ASPIRATION HAZARD		
INFORMATION ON PRODUCT	:	No information available
OTHER INFORMATION	:	No information available
[12.ECOLOGICAL INFORMATION]		
ECOTOXICITY	:	Rainbow trout, 96h, LC50 : 8.6 mg/L Daphnia magna, 48h, EC50 : 1.1 mg/L
ACUTE HAZARD	:	No information available
LONG-TERM HAZARD	:	No information available
PERSISTENCE / DEGRADABILITY	:	Closed bottle test (OECD301D) : 13 % (28 days)
MOBILITY IN SOIL	:	No information available
BIOACCUMULATIVE POTENTIAL	:	No information available

[13.DISPOSAL CONSIDERATIONS] Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. Dispose of waste in accordance with local.state and federal regulations. Image: Constructor: Const	OTHER ADVERSE EFFECTS	: No information available				
Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. Dispose of waste in accordance with local,state and federal regulations. [14.TRANSPORT INFORMATION] Follow all regulations in your country or region INTERNATIONAL REGULATIONS UN CLASS / UN NUMBER : Class 9 / UN3082 IATA : UN Number UN3082 IATA : UN Number UN3082 Proper Shipping Name Environmentally Hazardous Substance, Liquid, n.o.s.(containing Ethyl 2-Cyclohexylpropionate) Class 9 Packing Group III IMDG : UN Number UN3082 Proper Shipping Name Environmentally Hazardous Substance, Liquid, n.o.s.(containing Ethyl 2-Cyclohexylpropionate) Class 9 Packing Group III Additional Information Marine pollutant SPECIAL PRECAUTIONS FOR USER : Review "ACCIDENTAL RELEASE MEASURES (Section 6)". Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage. Ensure Containers tighting Market without breakage or leakage. Ensure Containers without breakage or leakage. Ensure Containers without breakage or leakage. Ensure Containers tighting Market without br	13 DISPOSAL CONSIDERATIONS					
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Emergency Response Guide(ERG) Numbers : 171 [15.REGULATORY INFORMATION]		Ensure containers without breakage or leakage. Ensure containers tightly fixed.				
[15.REGULATORY INFORMATION] Follow all regulations in your country or region. INVENTORIES : ENCS(Japan) 3-2428 TSCA(USA) Yes EINECS(EU) No(ELINCS) 412-280-5 AICS(Australia) Yes DSL(Canada) Yes DSL(Canada) No(NDSL) ECL(Korea) No PICCS(Philippines) Yes IECSC(China) Yes KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.						
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[16.OTHER INFORMATION]						
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REFERENCE

: -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)

-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

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