

## SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

**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  
**E-MAIL ADDRESS** : 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)** : Not applicable(Vapours)  
**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 ENVIRONMENT

- ACUTE HAZARD : Category 2  
 - LONG-TERM HAZARD : 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 : Refer to SDS.

## [3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Substance  
INGREDIENTS AND CONCENTRATION RANGE : Ethyl 2-cyclohexyl propionate  
CAS RN : 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]

EXTINGUISHING MEDIA : 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, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE : Use goggles and protective gloves.  
Large spills : Remove person to safety.  
Ensure adequate ventilation.  
ENVIRONMENTAL PRECAUTIONS : 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  
SUITABLE STORAGE CONDITIONS : 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]

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 EQUIPMENT	
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 PROPERTIES]

APPEARANCE	
PHYSICAL STATE	: Liquid
COLOUR	: Colorless clear
ODOUR	: Characteristic odour
pH	: Not applicable
SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE 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 PROPERTIES	
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
SOLVENT SOLUBILITY	: Soluble in ethyl alcohol
PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow)	: 4.03
AUTO-IGNITION TEMPERATURE	: No information available
DECOMPOSITION TEMPERATURE	: No information available
ODOUR THRESHOLD	: No information available
EVAPORATION RATE	: No information available
FLAMMABILITY (SOLID,GAS)	: No information available
VISCOSITY	: No information available
OTHER DATA	: No information available

## [10.STABILITY AND REACTIVITY]

CHEMICAL STABILITY	: Stable in general.
POSSIBILITY OF HAZARDOUS REACTIONS	: Stable in general.
CONDITIONS TO AVOID	: No information available
INCOMPATIBLE MATERIALS	: No information available

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon dioxide  
OTHERS : No information available

## [11.TOXICOLOGICAL INFORMATION]

## ACUTE TOXICITY

Oral

INFORMATION ON PRODUCT : Rat, LD50 : 5 g/kg

Dermal

INFORMATION ON PRODUCT : Rat, LD50 : &gt; 2 g/kg

Inhalation

INFORMATION ON PRODUCT : Rat, LC50 : &gt; 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 SENSITIZATION

## RESPIRATORY

INFORMATION ON PRODUCT : No information available

## SKIN

INFORMATION ON PRODUCT : No information available

## MUTAGENICITY (GERM CELL MUTAGENICITY)

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

OTHER ADVERSE EFFECTS : 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.

[14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

INTERNATIONAL REGULATIONS

UN CLASS / UN NUMBER	:	Class 9 / 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 tightly fixed.  
Follow all regulations in your country or region.  
Keep away from source of ignition.  
Emergency Response Guide(ERG) Numbers : 171

[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)	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.

[16.OTHER INFORMATION]

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)

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.