SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

[1.PRODUCT AND COMPANY IDENTIFICA	11	ION]
PRODUCT NAME	:	LUNAC O-A
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)		
ACUTE TOXICITY (Dermal)		
ACUTE TOXICITY (Inhalation)		
SKIN CORROSION / IRRITATION	:	Not classified
SERIOUS EYE DAMAGE / EYE IRRITATION	:	Not classified
RESPIRATORY SENSITIZATION	:	Classification not possible
SKIN SENSITIZATION	:	Not classified
GERM CELL MUTAGENICITY	:	Not classified
CARCINOGENICITY	:	Not classified
REPRODUCTIVE TOXICITY	:	Not classified
SPECIFIC TARGET ORGAN TOXICITY	(
- SINGLE EXPOSURE	:	Classification not possible
- REPEATED EXPOSURE	:	Not classified
ASPIRATION HAZARD	:	Classification not possible
ENVIRONMENTAL HAZARDS		
HAZARDOUS TO THE AQUATIC ENVI	R	ONMENT
- ACUTE HAZARD	:	Not classified
- LONG-TERM HAZARD	:	Not classified
- HAZARDOUS TO THE OZONE LAYER	:	Classification not possible
GHS LABEL ELEMENTS		
		Not applicable
SIGNAL WORD		Not applicable
HAZARD STATEMENTS	:	Not applicable
PRECAUTIONARY STATEMENTS		
		Wash thoroughly after handling. If needed, use personal protective equipment as required.
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.
STORAGE	:	Store in well-ventilated place.
DISPOSAL	:	

SAFE HANDLING ADVICE	: 1	Refer to SDS.			
[3.COMPOSITION / INFORMATION ON INGREDIENTS]					
SUBSTANCE OR MIXTURE	: :	Substance			
INGREDIENTS AND CONCENTRATION	: (Oleic acid			
RANGE					
CAS RN	: '	112-80-1			
[4.FIRST-AID MEASURES]					
IN CASE OF INHALATION	: 1	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	: 1	Powder, alcohol-resistant foam, carbon dioxide, sand			
NOT SUITABLE EXTINGUISHING MEDIA	: 1	No information available			
SPECIFIC HAZARDS	: 1	No information available			
SPECIFIC METHODS		Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible.			
PROTECTION OF FIRE FIGHTERS		Use goggles in combination with dust mask, and other protections as appropriate to situation.			
[6.ACCIDENTAL RELEASE MEASURES]					
PERSONAL PRECAUTIONS,	: 1	Use goggles and protective gloves.			
PROTECTIVE EQUIPMENT AND		Large spills : Remove person to safety.			
		Ensure adequate ventilation.			
ENVIRONMENTAL PRECAUTIONS METHODS FOR CLEANING UP		Do not discharge into the drains, surface waters or ground water directly.			
METHODS FOR CLEANING UP	5	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	: 1	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	: 1	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.			
		Avoid contact with bases.			
STORAGE	,				
	: :	Store container tightly closed in well-ventilated place.			
		Keep away from source of ignition.			
		Do not store with alkalies.			
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	: Gloves (acid-resistant)				
EYE PROTECTION	: Safety glasses				
SKIN AND BODY PROTECTION	Full-body suit				
HYGIENE MEASURES	: No information available				
[9.PHYSICAL AND CHEMICAL PROPERT	FSI				
APPEARANCE					
PHYSICAL STATE	: Liquid(colid in winter(under 20C))				
COLOUR	Liquid(solid in winter(under 20C))Pale yellow				
ODOUR	: Characteristic odour				
pH SPECIFIC TEMPERATURES / TEMPER/					
AT WHICH CHANGES IN PHYSICAL ST					
BOILING POINT	: 360 °C (680 °F)				
MELTING POINT	: 5 °C (41 °F)				
FLASH POINT	: 196 °C (384.8 °F) (CLEVELAND open cup method)				
FLAMMABILITY OR EXPLOSIVE PROPE					
FLAMMABILITY OR EXPLOSIVE LIMITS	: UPPER LIMIT : 2.4 % LOWER LIMIT : 0.3 %				
VAPOUR PRESSURE	: 13300 Pa (285 °C) (545 °F)				
VAPOUR DENSITY	: No information available				
DENSITY (SPECIFIC GRAVITY)	: 0.898 g/mL (20 °C) (68 °F)				
SOLUBILITY					
WATER SOLUBILITY	: Insoluble				
SOLVENT SOLUBILITY	: Soluble in alcohol and chloroform. Soluble in ether.				
PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow)	: No information available				
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	: 23 mPa.s (30 °C) (86 °F)				
OTHER DATA	: No information available				
[10.STABILITY AND REACTIVITY]					
CHEMICAL STABILITY	· Stable in general				
POSSIBILITY OF HAZARDOUS	Stable in general.Reacts with base.				
REACTIONS					
	No self-reactivity.				
CONDITIONS TO AVOID	: Avoid contact with strong bases.				
INCOMPATIBLE MATERIALS	: Do not use cupric material.				
HAZARDOUS DECOMPOSITION	: No special hazardous and harmful combustion or decomposition				
PRODUCTS	products.				

OTHERS	: No information available
[11.TOXICOLOGICAL INFORMATION] ACUTE TOXICITY	
Oral	
INFORMATION ON PRODUCT	: Rat, LD50 : 25 g/kg (2) Mouse, LD50 : 28 g/kg (2)
Dermal	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON PRODUCT SKIN CORROSION / IRRITATION	: No information available
	: Rabbit, undiluted, 4hr, semi-occluded application (OECD 404) : Not classified
SERIOUS EYE DAMAGE / IRRITATION	
	: Rabbit, Draize test, 100mg : Mild (2)
RESPIRATORY OR SKIN SENSITIZATIO	
RESPIRATORY	
INFORMATION ON PRODUCT	: No information available
SKIN	
	: No information available
MUTAGENICITY (GERM CELL MUTAGE	
INFORMATION ON PRODUCT	: Ames test (TA98, TA100) : Negative
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	: No information available
ASPIRATION HAZARD	
INFORMATION ON PRODUCT	: No information available
OTHER INFORMATION	: No information available
[12.ECOLOGICAL INFORMATION]	
ECOTOXICITY	: Red killifish, 96h, LC50 : > 2.5 mg/L (12)
	Daphnia magna, 48h, EC50 : > 2.8 mg/L (12) Selenastrum, 72h, EC50 : > 2.6 mg/L (12)
PERSISTENCE / DEGRADABILITY	: Modified MITI test I (OECD 301C), 28days : Readily biodegradable (4)
MOBILITY IN SOIL	: No information available
BIOACCUMULATIVE POTENTIAL	: No information available
OTHER ADVERSE EFFECTS	: No information available
[13.DISPOSAL CONSIDERATIONS]	
	Paviaw "HANDLING AND STORACE (Section 7)"

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 re INTERNATIONAL REGULATIONS	egi	on
UN CLASS / UN NUMBER	:	Not applicable (IMDG, IATA)
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.

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	: ENCS(Japan)	2-975
	TSCA(USA)	Yes
	EINECS(EU)	204-007-1
	AICS(Australia)	Yes
	DSL(Canada)	Yes
	ECL(Korea)	KE-26450
	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)
(2)Registry of Toxic Effects of Chemical Substances

(4)Biodegradation and Bioconcentration of the Existing Chemical Substances under the Chemical Substances Control Law

(12)Results of Eco-toxicity tests of chemicals conducted by Ministry of the Environment in Japan

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