ELEC TS-5 Kao Corporation

## SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

[1.PRODUCT AND COMPANY IDENTIFICA	
PRODUCT NAME	: ELEC TS-5
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 HAZARD (Oral)	: Not classified
ACUTE HAZARD (Dermal)	: Not classified
ACUTE HAZARD (Inhalation)	: Not applicable(Vapours)
SKIN CORROSION / IRRITATION	: Not classified
SERIOUS EYE DAMAGE / EYE IRRITATION	: Not classified
RESPIRATORY SENSITIZATION	: Classification not possible
SKIN SENSITIZATION	: Not classified
GERM CELL MUTAGENICITY	: Classification not possible
CARCINOGENICITY	: Classification not possible
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	RONMENT
- ACUTE HAZARD	: Not classified
- LONG-TERM HAZARD	: Not classified
- HAZARDOUS TO THE OZONE LAYER	: Classification not possible
GHS LABEL ELEMENTS	
PICTOGRAMS OR SYMBOLS SIGNAL WORD	<ul> <li>Not applicable</li> <li>Not applicable</li> </ul>
HAZARD STATEMENTS	: Not applicable
PRECAUTIONARY STATEMENTS	
PREVENTION	: 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	:	Refer to SDS. This product may be melted or solidified according to the storage conditions or after the long time storage. Please do not transport or store under high temperature condition.				
[3.COMPOSITION / INFORMATION ON INGREDIENTS]						
SUBSTANCE OR MIXTURE	:	Substance				
INGREDIENTS AND CONCENTRATION RANGE	:	Glycerol monostearate				
CAS RN	:	31566-31-1				
[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	:	Water spray, powder				
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.				
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 mask, goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. Treat from upwind position.				
ENVIRONMENTAL PRECAUTIONS	:	Do not discharge into the drains, surface waters or ground water directly.				
METHODS FOR CLEANING UP	:	Prevent dispersion of dust. Sweep or vacuum by dust-explosion-proof type cleaner.				
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.				
		In case of heating or store in heating place, the content of monoglyceride may be decreased.				
		This product may be melted or solidified according to the storage conditions or after the long time storage. Please do not transport or store under high temperature condition.				
SAFE HANDLING ADVICE	:	Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required.				
		This material may cause risk of dust explosion.				
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 PF	ROTECTION]			
ENGINEERING MEASURES :	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			
	Use local exhaust ventilation, in case of generation of dust.			
	10 mg/m2 T/MA (inholoble particles, recommended): 2 mg/m2 T/MA			
ACGIH (TLV) :	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended)(Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))			
OSHA (PEL) :	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (Particulates not otherwise regulated)			
PERSONAL PROTECTIVE EQUIPMENT				
RESPIRATORY PROTECTION :	Use dust mask, as appropriate to situation.			
HAND PROTECTION :	Rubber gloves			
EYE PROTECTION :	Safety glasses with side shield(Safety goggles or Face shield)			
SKIN AND BODY PROTECTION :	Full-body suit			
HYGIENE MEASURES :	No information available			
9.PHYSICAL AND CHEMICAL PROPERTIES	51			
APPEARANCE				
	Powder			
	White			
ODOUR :	Slightly characteristic odour			
pH :	Not applicable			
SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR				
BOILING POINT :	No information available			
MELTING POINT :	65 - 70 °C ( 149 - 158 °F)			
FLASH POINT :	219 °C ( 426.2 °F) (CLEVELAND open cup method)			
FLAMMABILITY OR EXPLOSIVE PROPER	TIES			
FLAMMABILITY OR EXPLOSIVE : LIMITS	$\label{eq:UPPER_LIMIT} \ensuremath{UPPER}\xspace \ensuremath{LIMIT}\xspace: \ensuremath{No}\xspace \ensuremath{information}\xspace \ensuremath{available}\xspace \ensuremath{LIMIT}\xspace: \ensuremath{No}\xspace \ensuremath{information}\xspace \ensuremath{available}\xspace \ensuremath{available}\xs$			
VAPOUR PRESSURE :	No information available			
VAPOUR DENSITY :	No information available			
DENSITY (SPECIFIC GRAVITY) :				
	0.893 g/mL ( 100 °C) ( 212 °F) 0.875 g/mL ( 120 °C) ( 248 °F)			
SOLUBILITY	0.875 g/mL ( 120 °C) ( 246 °F)			
	Insoluble			
	Soluble in toluene and chloroform.			
	Soluble in ethyl alcohol			
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	:	44 mPa.s ( 80 °C) ( 176 °F) 21 mPa.s ( 100 °C) ( 212 °F) 18 mPa.s ( 120 °C) ( 248 °F)	
OTHER DATA	:	No information available	
[10.STABILITY AND REACTIVITY] CHEMICAL STABILITY POSSIBILITY OF HAZARDOUS REACTIONS	:	No information available Low reactivity No self-reactivity.	
CONDITIONS TO AVOID INCOMPATIBLE MATERIALS HAZARDOUS DECOMPOSITION PRODUCTS OTHERS	::	No information available No information available No information available	
[11.TOXICOLOGICAL INFORMATION] ACUTE HAZARD Oral			
INFORMATION ON PRODUCT Dermal	:	Rat, LD50 : > 2000 mg/kg	
INFORMATION ON PRODUCT Inhalation	:	No information available	
INFORMATION ON PRODUCT	:	No information available	
SKIN CORROSION / IRRITATION INFORMATION ON PRODUCT	:	Rabbit, undiluted, 4 hours semi-occluded application test (OECD404 Not irritant	):
SERIOUS EYE DAMAGE / IRRITATION INFORMATION ON PRODUCT RESPIRATORY OR SKIN SENSITIZATIO	: DN	Rabbit, undiluted, OECD405 : Mild irritant	
RESPIRATORY INFORMATION ON PRODUCT SKIN	:	No information available	
INFORMATION ON PRODUCT MUTAGENICITY (GERM CELL MUTAGE		No information available CITY)	
INFORMATION ON PRODUCT CARCINOGENICITY	:	Ames test (TA98, TA100) : Negative	
INFORMATION ON PRODUCT	:	No information available	
IARC NTP	:	Not listed Not listed	
EU	:	Not listed	
OSHA	:	Not listed	
REPRODUCTIVE TOXICITY			
INFORMATION ON PRODUCT SPECIFIC TARGET ORGAN TOXICITY	:	No information available	
- SINGLE EXPOSURE INFORMATION ON PRODUCT - REPEATED EXPOSURE	:	No information available	
INFORMATION ON PRODUCT ASPIRATION HAZARD	:	No information available	
INFORMATION ON PRODUCT	:	No information available	

ELEC TS-5 Kao Corporation

OTHER INFORMATION	: No information available	
[12.ECOLOGICAL INFORMATION]		
ECOTOXICITY	: Rainbow trout, 96h, LC50 :	> 100 mg/L
ACUTE HAZARD	: No information available	
LONG-TERM HAZARD	: No information available	
PERSISTENCE / DEGRADABILITY	: No information available	
MOBILITY IN SOIL	: No information available	
BIOACCUMULATIVE POTENTIAL	: No information available	
OTHER ADVERSE EFFECTS	: $BOD5 = 0 g/g, COD(Cr)$ :	1.66 g/g (Data on similar product)
[13.DISPOSAL CONSIDERATIONS]		
	Review "HANDLING AND \$	STORAGE (Section 7)".
	Passed to a licensed waste	contractor.
	This product may cause ris	k of dust explosion.
Dispose of waste in accordance with loca	l,state and federal regulations.	
[14.TRANSPORT INFORMATION]		
Follow all regulations in your country or re	egion	
INTERNATIONAL REGULATIONS		
UN CLASS / UN NUMBER	: Not applicable	
SPECIAL PRECAUTIONS FOR USER	: Review "ACCIDENTAL RE Review "HANDLING AND \$	LEASE MEASURES (Section 6)". STORAGE (Section 7)".
	Ensure containers without I	
	Ensure containers tightly fix Follow all regulations in you	
	Keep away from source of	
	Reep away non source of	ginton.
[15.REGULATORY INFORMATION]		
Follow all regulations in your country or re	egion.	
INVENTORIES	: ENCS(Japan)	2-669
	TSCA(USA)	Yes
	EINECS(EU)	250-705-4
	AICS(Australia)	Yes
	DSL(Canada)	Yes
	ECL(Korea)	KE-26398
	PICCS(Philippines)	Yes
	IECSC(China)	Yes
KAO Corporation is not able to check up region, therefore, we request this matter w		

## [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.