

MATERIAL SAFETY DATA SHEET

KAO CORPORATION



PRODUCT NAME

ELEMI RESINOID 50DPG

CDS No. : 0717

Issue No. : 001

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Section 1. MATERIAL IDENTIFICATION

IDENTITY : Elemi Resinoid with solvent (Dipropylene glycol)
 CAS# : 9000-75-3(as Elemi Resinoid), 25265-71-8(as Dipropylene glycol)

MANUFACTURER'S NAME : KAO Corporation

ADDRESS : 2-1-3, Bunka Sumida-ku, TOKYO 131 JAPAN

EMERGENCY TELEPHONE NO. : (800)424-9300 (CHEMTREC)

TELEPHONE NO. FOR INFORMATION : + 81-3-5630-9591 (Flavours and Fragrances Department)

Section 2. HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS (CHEMICAL OR COMMON NAMES)	wt%	OSHA PEL	ACGIH TLV
		None established	None established

Section 3. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT :	No data available
VAPOR PRESSURE :	No data available
VAPOR DENSITY (AIR = 1) :	No data available
SPECIFIC GRAVITY :	0.946 at 85°C
REFRACTIVE INDEX :	No data available
MELTING / FREEZING POINT :	87-90°C
pH :	No data available
SOLUBILITY IN WATER :	Insoluble
APPEARANCE AND ODOR :	Pale yellow solid mass with a fresh citrus Lemon like odor

Section 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 63°C, TAG closed cup method

EXPLOSIVE LIMITS IN AIR(% BY VOLUME) LEL: Not determined
UEL: Not determined

AUTOIGNITION TEMPERATURE: Not determined

EXTINGUISHING MEDIA:

Dry chemical or carbon dioxide for small fires.
Alcohol-type or all-purpose-type foams for large fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Cool fire-exposed tank/container surfaces with water spray. Fight fire from upwind position. Wear self-contained breathing apparatus and full protective equipment.

FIRE AND EXPLOSION HAZARDS:

Potential for release of flammable vapors. Vapors may travel considerable distance to ignition source and flash back.

Section 5. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizing agents

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:
Carbon monoxide, Carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur

Section 6. HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, Skin, Ingestion

CARCINOGENICITY NTP: None established
IARC: None established
OSHA: None established

SIGNS AND SYMPTOMS OF EXPOSURE:

May cause skin and eye irritation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
No information available.

EMERGENCY AND FIRST AID PROCEDURES

SKIN: Immediately wash material off the skin with plenty of water and soap. If irritation persists, get medical attention.

EYES: Immediately hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes and get medical attention if irritation persists.

INHALATION: Remove person to fresh air and get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Give one or two glasses of water and get medical attention.
Never give anything by mouth to an unconscious person.

Section 7. PRECAUTIONS FOR SAFE HANDLING AND USE**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED :**

Review **FIRE AND EXPLOSION HAZARD DATA**(Section4) and **SPECIAL PROTECTION INFORMATION**(Section8) before proceeding with clean up. Use appropriate personal protective equipment during clean up.

Remove source of heat, sparks, flame, impact, friction or electricity.

Small Spills : Absorb spills with suitable inert absorbent and incinerate or dispose of.
Large Spills : Dike spill. Contain spill by pumping (use an explosion proof or hand-pump) or with a suitable absorbent and place in covered container.

WASTE DISPOSAL METHOD :

Incinerate in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING :

Keep container tightly closed and store it in a cool and well ventilated area.

Section 8. SPECIAL PROTECTION INFORMATION

PROTECTIVE MEASURES : Use organic solvent resistant gloves such as that made with butyl rubber and safety glasses

VENTILATION : Local exhaust ventilation

WORK /HYGIENIC PRACTICES : Normally not necessary

Section 9. OTHER INFORMATION

ACUTE TOXICITY : Oral rat LD₅₀ : 14850 mg/kg
(Data on dipropylene glycol, RTECS# UB8765000)