

## MATERIAL SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : AMYL CINNAMIC ALDEHYDE  
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]

MOST IMPORTANT HAZARDS AND EFFECTS :  
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 : Category 2  
SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible  
RESPIRATORY SENSITIZATION : Classification not possible  
SKIN SENSITIZATION : Category 1  
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 : Classification not possible  
ASPIRATION HAZARD : Classification not possible  
ENVIRONMENTAL HAZARDS  
HAZARDOUS TO THE AQUATIC ENVIRONMENT  
- ACUTE TOXICITY : Category 2  
- CHRONIC TOXICITY : Category 2

## GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS :



SIGNAL WORD : Warning  
HAZARD STATEMENTS : Causes skin irritation  
May cause an allergic skin reaction  
Toxic to aquatic life  
Toxic to aquatic life with long lasting effects

## PRECAUTIONARY STATEMENTS

PREVENTION : Do not breathe dust/fume/gas/mist/vapours/spray.  
Avoid release to the environment.  
Contaminated work clothing should not be allowed out of the workplace.

- Wash thoroughly after handling.  
Wear protective gloves.
- 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 (or hair): Remove/take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
Collect spillage.
- STORAGE :
- DISPOSAL : Passed to a licensed waste contractor.
- SAFE HANDLING ADVICE : Refer to MSDS.

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
alpha-amyl cinnamic aldehyde	Confidential	122-40-7
tert-Butyl-p-hydroxyanisole	Confidential	25013-16-5

[4.FIRST-AID MEASURES]

- IN CASE OF INHALATION : Remove to fresh air and keep at rest in a position comfortable for breathing.
- IN CASE OF SKIN CONTACT : Gently wash with plenty of soap and water.  
If skin irritation or rash occurs, seek medical advice/attention.
- 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/physician 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.
- PROTECTION OF FIRE FIGHTERS : Use goggles in combination with dust mask, and another 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. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapours/spray.
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]

PHYSICAL STATES	
FORM	: Liquid
COLOUR	: Yellow
ODOUR	: Characteristic odour
pH	: No data available
SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR	
BOILING POINT	: No information available
MELTING POINT	: No information available
FLASH POINT	: 146.0 °C ( 294.8 °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	: No information available
VAPOUR DENSITY	: No information available
DENSITY (SPECIFIC GRAVITY)	: 0.967 g/mL ( 20.0 °C) ( 68 °F)
SOLUBILITY	
WATER SOLUBILITY	: Poor
SOLVENT SOLUBILITY	: 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



EU : Not listed  
 OSHA : Not listed  
 REPRODUCTIVE TOXICITY  
 INFORMATION ON PRODUCT : No information available  
 INFORMATION ON INGREDIENTS : No information available  
 SPECIFIC TARGET ORGAN TOXICITY  
 - SINGLE EXPOSURE  
 INFORMATION ON PRODUCT : No information available  
 INFORMATION ON INGREDIENTS : No information available  
 - REPEATED EXPOSURE  
 INFORMATION ON PRODUCT : No information available  
 INFORMATION ON INGREDIENTS : No information available  
 ASPIRATION HAZARD  
 INFORMATION ON PRODUCT : No information available  
 INFORMATION ON INGREDIENTS : No information available  
 OTHER INFORMATION : No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY : No information available  
 PERSISTENCE / DEGRADABILITY : No information available  
 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 Heptanal,2-(phenylmethylene)-)
		Class	9
		Packing Group	III
IMDG	:	UN Number	UN3082
		Proper Shipping Name	Environmentally Hazardous Substance Liquid, n.o.s.(containing Heptanal,2-(phenylmethylene)-)
		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)	Yes
		TSCA(USA)	Yes
		EINECS(EU)	Yes
		AICS(Australia)	Yes
		DSL(Canada)	Yes
		ECL(Korea)	Yes
		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
		(32)RIFM

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