
MATERIAL SAFETY DATA SHEET

Issue Date 25-Sep-98

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : **HEXYL CINNAMIC ALDEHYDE**

COMPANY : Kao Corporation
2-1-3,Bunka Sumidaku,TOKYO,131-8501 JAPAN

TELEPHONE NO. : 81-3-5630-7700(International Chemical Department)

EMERGENCY TELEPHONE NO. : 81-3-5630-7700(International Chemical Department)

[2.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE / MIXTURE : Substance

CHEMICAL NAME : a-Hexyl cinnamic aldehyde
(GENERIC NAME)

CHEMICAL FORMULA : C₁₅H₂₀O

CAS RN : 101-86-0

UN No. : Not applicable

EINECS : 202-983-3

TSCA : Yes

OTHER INFORMATION : None

[3.HAZARDS IDENTIFICATION]

FIRE AND EXPLOSION HAZARD : May be ignited by heat, sparks or flames.

POTENTIAL HEALTH EFFECTS : This material is not harmful in case usual handling.
Irritating to skin.
May cause eyes and respiratory system irritation.

ENVIRONMENTAL EFFECTS : No information available

[4.FIRST-AID MEASURES]

IN CASE OF EYE CONTACT : Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. If necessary seek medical attention.

IN CASE OF SKIN CONTACT : Wash material off the skin with plenty of water and soap. If necessary seek medical attention.

IN CASE OF INHALATION : Remove person to fresh air. If necessary seek medical attention.

IN CASE OF INGESTION : Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water or milk to drink.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEASURES : Fight fire from upwind position.
Move container from fire area if you can do it without risk.
Keep unnecessary people away.
Spray or scatter the extinguishing agents directly to the fire.

EXTINGUISHING AGENTS : In case of small fire use powder, carbon dioxide or dry sand.
In case of large fire shut off air by spraying with water or foam.

[6.ACCIDENTAL RELEASE MEASURES]

: Small spills : Absorb spills with sand or inert absorbent and flush with
Large spills : Remove person to safety.
Keep away from sources of ignition.

Ensure adequate ventilation.
Dike spills and dispose of in safe area.
Do not discharge into the drains, surface waters or
ground water.

[7.HANDLING AND STORAGE]

HANDLING : Keep away from sources of ignition.
Do not smoke at work.
Handle in well-ventilated areas.
Use eye protection equipment as appropriate to situation.
Avoid contact with eyes and skin.

STORAGE : Keep container tightly closed.
Protect from sun. Store in a dark, cool and well-ventilated place.

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

ACGIH(TLV) : Not established

OSHA(PEL) : Not established

VENTILATION : Use local exhaust ventilation.

PROTECTIVE MEASURES

RESPIRATORY PROTECTIVE EQUIPMENTS : Use as appropriate to situation.

EYE PROTECTIVE EQUIPMENTS : Safety goggles

HAND PROTECTIVE EQUIPMENTS : Rubber gloves

PROTECTIVE CLOTHINGS : Use as appropriate to situation.

[9.PHYSICAL AND CHEMICAL PROPERTIES]

APPEARANCE : Yellow liquid

ODOUR : Characteristic odour

BOILING POINT : 305.0 C , (581.0 F)

VAPOUR PRESSURE : 0.0007 mmHg(25 C)

VAPOUR DENSITY : No data available

VOLATILITY : No data available

MELTING / FREEZING POINT : 4.0 C , (39.2 F) (2)

SPECIFIC GRAVITY : 0.958 (20.0 C) , 0.958 (68.0 F)

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Soluble in ethyl alcohol

pH :

VISCOSITY : No data available

OCTANOL / WATER PARTITION COEFFICIENT : No data available

OTHER INFORMATION : None

[10.REACTIVITY AND STABILITY]

FLASH POINT : 165.0 C , (329.0 F) (Cleveland Open Cup Tester)

AUTOIGNITION TEMPERATURE : No data available

EXPLOSIVE LIMIT IN AIR(LEC) : No data available

EXPLOSIVE LIMIT IN AIR(UEC) : No data available

COMBUSTIBILITY : No information available

OXIDIZABILITY : No information available

SELF-REACTIVITY / EXPLOSIVITY : No information available

REACTIVITY AND STABILITY : No information available
 HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS : No information available
 OTHER INFORMATION : None

[11.TOXICOLOGICAL INFORMATION]

CORROSIVITY : No data available
 SKIN IRRITATION : No data available
 EYE IRRITATION : No data available
 SENSITIZATION : No data available
 ACUTE TOXICITY : Oral, rat, LD₅₀ : 3.1 g/kg (1)
 : Skin, rabbit, LD₅₀ : > 3 g/kg (1)
 SUBCHRONIC EFFECTS : No data available
 CHRONIC EFFECTS : No data available
 CARCINOGENICITY : No data available
 IARC : None of this product's components are listed
 NTP : None of this product's components are listed
 OSHA : None of this product's components are listed
 MUTAGENICITY : No data available
 REPRODUCTIVE EFFECTS : No data available
 TERATOGENICITY : No data available
 OTHER INFORMATION : None

[12.ECOLOGICAL INFORMATION]

BIODEGRADABILITY : No data available
 BIOACCUMULATION : No data available
 FISH TOXICITY : No data available
 OTHER INFORMATION : None

[13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE(Section7)"
 Dispose of waste in accordance with local,state and federal regulations.

[14.TRANSPORTATION INFORMATION]

Follow all regulations in your country or region.
 PRECAUTIONS : Review "ACCIDENTAL RELEASE MEASURES(Section6)"
 : Review "HANDLING AND STORAGE(Section7)"
 PROPER SHIPPING NAME : Non hazardous
 HAZARD CLASS : Not applicable
 UN NO. : Not applicable
 PACKING GROUP : Not applicable
 HAZARD LABELS : Not applicable

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.
 EINECS : 202-983-3
 TSCA : Exist

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]

REFERENCES : (1)Opdyke, D.L.J.,Monographs on Fragrance Raw Materials, Food and

Chemical Toxicology.
(2) Scientific Literature Reviews on Materials in Flavor Usage, 69 Volume,
1974-1979

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. For Export to U.S. contact Kao Corporation for U.S. version MSDSs with detailed U.S. Regulations.