

## MATERIAL SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : CYCLOHEXYL SALICYLATE  
SUPPLIER : Kao Corporation  
ADDRESS : 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan  
DIVISION : Chemical Division  
TELEPHONE NUMBER : 81-3-5630-7700  
FAX NUMBER : 81-3-5630-7889  
EMERGENCY : 81-3-5630-7700  
TELEPHONE NUMBER

## [2.COMPOSITION/INFORMATION ON INGREDIENTS]

SUBSTANCE OR PREPARATION : Substance  
INGREDIENTS : Cyclohexyl salicylate  
CAS RN : 25485-88-5  
INGREDIENTS CONTRIBUTING TO : None  
THE HAZARD(JAPAN)

## [3.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS :  
ADVERSE HUMAN HEALTH EFFECTS : To the best of our investigation, no special hazards have to be mentioned.  
ENVIRONMENTAL EFFECTS : Toxic to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.  
PHYSICAL AND CHEMICAL HAZARDS : Combustible.  
Be careful to fire.  
CLASS NAME FOR MSDS IN JAPAN : Not applicable

## [4.FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove person to fresh air. 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 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 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 MEDIA : Powder, alcohol-resistant foam, carbon dioxide, sand  
NOT SUITABLE EXTINGUISHING MEDIA : Do not spray cylindric water.

- 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 FIREFIGHTERS : Use goggles in combination with dust mask, and another protections as appropriate to situation.

## [6.ACCIDENTAL RELEASE MEASURES]

- PERSONAL PRECAUTIONS : Use goggles and protective gloves.  
Large spills : Remove person to safety.  
Ensure adequate ventilation.
- ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground water directly.
- METHODS FOR CLEANING UP : Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth.  
Large spill: 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 : Handle in well-ventilated areas.  
Use safety glasses and protective gloves as appropriate to situation.  
Wash hands and face and gargle after handling.

## STORAGE

- STORAGE CONDITIONS : Keep container tightly closed.  
Protect from sun. Store in a dark and well-ventilated place.  
Keep away from source of ignition.
- 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 : Clear  
ODOUR : Characteristic odour  
pH : Not applicable

## SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No data available  
MELTING POINT : No data available  
DECOMPOSITION TEMPERATURE : No data available  
FLASH POINT : 168 °C ( 334.4 °F ) ( CLEVELAND open cup method )  
AUTOIGNITION TEMPERATURE : No data available

## EXPLOSION PROPERTIES

EXPLOSION : UPPER LIMIT : No data available LOWER LIMIT : No data available  
VAPOUR PRESSURE : No data available  
VAPOUR DENSITY : No data available  
DENSITY : 1.1123 g/mL ( 25 °C ) ( 77 °F )

## SOLUBILITY

WATER SOLUBILITY : Poor  
SOLVENT SOLUBILITY : Soluble in ethyl alcohol  
OCTANOL/WATER PARTITION COEFFICIENT : No data available  
OTHER DATA : No data available

## [10. STABILITY AND REACTIVITY]

STABILITY : Stable in general.  
HAZARDOUS REACTIONS : Stable in general.  
CONDITIONS TO AVOID : No information available  
MATERIALS TO AVOID : No information available  
HAZARDOUS DECOMPOSITION PRODUCTS : Carbon dioxide  
OTHERS : No information available

## [11. TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY : Oral, rat, LD50 : > 2000 mg/kg  
LOCAL EFFECTS  
CORROSIVITY : No information available  
SKIN IRRITATION : Non-irritant for skin. (OECD 404)

EYE IRRITATION : Non-irritating to the eye. (OECD 405)  
 SENSITIZATION : No information available  
 CHRONIC TOXICITY/LONG TERM TOXICITY : No information available  
 CARCINOGENICITY : No information available  
 IARC : Not established  
 NTP : Not established  
 OSHA : Not established  
 MUTAGENICITY : Non-mutagenic (OECD 471)  
 TERATOGENICITY : No information available  
 REPRODUCTION TOXICITY : No information available  
 OTHER DATA : No information available

[12.ECOLOGICAL INFORMATION]

MOBILITY : No information available  
 PERSISTENCE/DEGRADABILITY : Readily biodegradable (OECD 301)  
 BIOACCUMULATION : No information available  
 ECOTOXICITY  
 AQUATIC TOXICITY : Brachydanio rerio (zebra fish), 96h, LC50 : 1 to 10 mg/L  
 Algae, 48h, IC50 : < 1 mg/L  
 Daphnia magna, 48h, EC50 : 1 to 10 mg/L  
 OTHER DATA : 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

UN CLASS/UN NUMBER : Class 9 / UN3082  
 IATA : Proper Shipping Name Environmentally Hazardous Substance, Liquid, n.o.s.(Cyclohexyl salicylate)  
 Class 9  
 UN Number UN3082  
 Packing Group III  
 Subsidiary Risk  
 Subsidiary Risk2  
 IMDG : Proper Shipping Name Environmentally Hazardous Substance, Liquid, n.o.s.(Cyclohexyl salicylate)  
 Class 9  
 UN Number UN3082  
 Packing Group III  
 Subsidiary Risk

Subsidiary Risk2  
Additional information Not applicable

PRECAUTIONS : 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) 3-4223  
TSCA(USA) Yes  
EINECS(EU) 400-410-3  
AICS(Australia) Yes  
DSL(Canada) Yes  
ECL(Korea) KE-20373  
PICCS(Philippines) 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)  
-The IFRA Standard

This fragrance compound is in accordance with the latest standard of IFRA within ordinary use. Contact with the manufacturer for detailed information.

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.