



# Kao Corporation, S.A.

Member of KAO CHEMICALS EUROPE

## SAFETY DATA SHEET

Conforms to 91/155/EEC - 2001/58/EC

### AMBER CORE

#### 1. Identification of the substance/preparation and of the company/undertaking

**Product name** : AMBER CORE  
**Code** : 3009058  
**Chemical product name** : 2-butanol, 1-[[2-(1,1-dimethylethyl)cyclohexyl]oxy]-  
**Manufacturer** : Kao Corporation  
1-3, Bunka 2-Chome, Sumida-ku, Tokyo 131-8501 - JAPAN  
Tel. +81 3 5630 7700 . Fax +81 3 5630 7889  
**Supplier** : Kao Corporation, S.A.  
Puig dels Tudons, 10 - 08210 BARBERÀ DEL VALLÈS (Barcelona)  
- SPAIN  
Telf. 937391300 Fax 937399333

**Emergency telephone number** : +81-3-5630-7700

**Material uses** : Perfume oil mixtures and blends consisting of products ready for use in finished perfume bases.

#### 2. Composition/information on ingredients

**Substance/preparation** : Substance

**Hazardous ingredients** :

Chemical name*	CAS No.	%	EC number	Classification
2-butanol, 1-[[2-(1,1-dimethylethyl)cyclohexyl]oxy]- See section 16 for the full text of the R Phrases declared above	139504-68-0	25 - 100		N; R51/53

Following European Directives and National Regulations, only the dangerous ingredients are disclosed in the above table.

\* Occupational Exposure Limit(s), if available, are listed in section 8

#### 3. Hazards identification

The substance is classified as dangerous according to Directive 67/548/EEC and its amendments.

**Classification** : N; R51/53

**Environmental hazards** : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

## 4. First aid measures

### First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for surrounding fires.
- Special exposure hazards** : No specific hazard.
- Fire-fighting procedures** : This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO<sub>2</sub>).
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions and clean-up methods** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Avoid contact of spilled material and runoff with soil and surface waterways.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

### Packaging materials

- Recommended** : Use original container.

## 8. Exposure controls/personal protection

### Exposure controls

- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  
>8 hour(s) (breakthrough time): disposable vinyl

## AMBER CORE

- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.  
Recommended: splash goggles, safety glasses with side shields
- Remark** : The penetration-time of the recommended gloves depend not only on the material. Also other factors may have influence on the penetration-time, as the thickness of them or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Body: Recommended: lab coat, overall  
Feet: Recommended: neoprene

## 9. Physical and chemical properties

### Appearance

- Physical state** (20°C) : Liquid.
- Color** : Clear.
- Odor** : Woody.
- Boiling point** : 122 to 125 °C ((at 5 mmHg))
- Melting point** : <-28.5 °C (at 101.3kPa(Freezing Point))
- Flash point** : Closed cup: 132°C (269.6°F). (P.M.C.C.) Open cup: 144°C (291.2°F) (COC).
- Vapor pressure** : 5.34 to 7.04 mmHg (25 °C)
- Density** : 0.931 to 0.941 g/cm<sup>3</sup> (20 °C) (Automatic densitometer)
- Solubility** : Soluble in methanol.  
Very slightly soluble in cold water.
- Dispersion properties** : See solubility in water, methanol.
- Viscosity ( Kinetic )** : 0 cSt

## 10. Stability and reactivity

\*\*\* draft only \*\*\*

- Stability** : The product is stable.
- Materials to avoid** : Extremely reactive or incompatible with oxidizing agents.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO<sub>2</sub>).
- Other Information** : When burning can generate carbon dioxide and carbon monoxide.

## 11. Toxicological information

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Contact sensitisation** : No specific information is available in our database regarding the other toxic effects of this material for humans.
- Eye contact** : No known significant effects or critical hazards.

### Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
2-butanol,	LD50	>2000 mg/kg	Oral	Rat
1-[[2-(1,1-dimethylethyl)cyclohexyl]o	LD50	>2000 mg/kg	Dermal	Rat

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

**AMBER CORE**

**Other Information** : SKIN IRRITATION: Rabbit, 0.5 ml, 4 hr semi-occlusive application: Very slight to well defined erythema with or without slight oedema were observed. (EEC Directive 84/449/EEC), Annex V, Method B4).  
 EYE IRRITATION: Rabbit, 0.1 ml: Temporary corneal opacification and transient slight to well defined conjunctival irritation. (EEC Directive 84/449/EEC, Annex V, Method B5).  
 SKIN SENSITIZATION: Guinea pig maximization test: Negative (EEC Directive 84/449/EEC, Annex V, Method B6).  
 MUTAGENICITY: Ames test (TA98, TA100, TA1535, TA1537, WP2uvrA): Negative.

**Over-exposure signs/symptoms**

**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : No known significant effects or critical hazards.

**12. Ecological information****Ecotoxicity data**

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
2-butanol, 1-[[2-(1,1-dimethylethyl)cyclohexyl]oxy]-	Fish (LC50)	96 hour(s)	4.1 mg/l

<u>Ingredient name</u>	<u>Persistence/degradability</u>						<u>Bioaccumulative potential</u>		
	<u>BOD<sub>5</sub></u>	<u>COD</u>	<u>ThOD</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>	<u>LogP<sub>ow</sub></u>	<u>BCF</u>	<u>Potential</u>
2-butanol, 1-[[2-(1,1-dimethylethyl)cy	30000 ppm								

**Other adverse effects** : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Additional information** : The test substance cannot be termed as readily biodegradable. Prevent contamination of soil, ground and surface water.

**13. Disposal considerations**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.


**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

**14. Transport information****International transport regulations**

<b>Regulatory Information</b>	<b>UN number</b>	<b>Proper shipping name</b>	<b>Class</b>	<b>Packing group</b>	<b>Label</b>	<b>Additional information</b>
<b>ADR/RID Class</b>	UN3082	-	-			Not available.
<b>IMDG Class</b>	UN3082	Environmentally hazardous substance, liquid, n.o.s. (2-butanol, 1-[[2-(1,1-dimethylethyl)cy	-			-
<b>IATA-DGR Class</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2-butanol, 1-[[2-(1,1-dimethylethyl)cy	-			Not available.

## 15. Regulatory information

### EU Regulations

Hazard symbol(s)	:	
		Dangerous for the environment
Risk Phrases	:	R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	:	S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
Contains	:	
Product use	:	Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use. - Industrial applications.
Other information	:	Not available.

### Other EU regulations

Additional warning phrases	:	Not applicable.
Restriction to market directive	:	Not applicable.
EC Statistical classification (Tariff Code)	:	2909200000

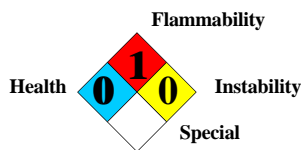
### Germany

Hazardous incident ordinance	:	No. ***
Ordinance on combustible liquids	:	Class: Omitted
Technical instruction on air quality control	:	Not available.
Hazard class for water	:	2

draft only

### U.S.A.

National Fire Protection Association (U.S.A.)



## 16. Other information

 Indicates information that has changed from previously issued version.

Full text of R phrases referred to in Sections 2 and 3	:	R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications referred to in Sections 2 and 3	:	N - Dangerous for the environment.
Key data sources	:	Not available.
Revision comments	:	Not available.

### History

Product code	:	3009058
Date of printing	:	14/03/2005
Date of issue	:	02/12/2004
Date of previous issue	:	01/12/2004
Version	:	5

Form : KCE SDS F EU

Notice to reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

Version 5

Page: 6 / 6

\*\*\* draft only \*\*\*