

Kao Corporation, S.A.

Member of KAO CHEMICALS EUROPE

SAFETY DATA SHEET

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



MAGNOL

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

Product name : MAGNOL
Code : 3009019
Chemical product name : Hydrogenated product of an adduct of 5-Ethylidene bicyclo (2.2.1) hept-2-ene and 2-Methoxy phenol. Contained triethyl citrate as solvent.
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. 937399 300. Fax 937399 333
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

Solvents : With Triethyl Citrate

Hazardous ingredients :

| Chemical name* | CAS No. | % | EC number | Classification |
|--|------------|----------|-----------|----------------|
| Hydrogenated product of an adduct of 5-Ethylidene bicyclo (2.2.1) hept-2-ene and 2-Methoxy phenol. Contained triethyl citrate as solvent. See section 16 for the full text of the R Phrases declared above | 92046-48-5 | 25 - 100 | | R43 |

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 : R43
Human health hazards : May cause sensitization by skin contact.

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 for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- 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.
- 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 with skin and clothing. Wash thoroughly after handling.
- 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.

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- 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
- 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** : Colorless.
- Odor** : Floral.
- Boiling point** : Descomposes below its boiling point.
- Melting point** : <0 °C
- Flash point** : Closed cup: >100°C (212°F). ((2), P.M.C.C.) Open cup: 166°C (330.8°F) (COC (2)).
- Vapor pressure** : 0.0008 mmHg (25 °C) ((1))
- Density** : 1.07 to 1.1 g/cm³ (20 °C) (Automatic densitometer)
- Solubility** : Soluble in cold water, methanol.
- Dispersion properties** : See solubility in water, methanol.
- Viscosity (Kinetic)** : 0 cSt

10. Stability and reactivity

- Stability** : The product is stable.
- Materials to avoid** : Extremely reactive or incompatible with oxidizing agents.
- Other Information** : When burning can generate carbon dioxide and carbon monoxide.

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : May cause sensitization by skin contact.
- Contact sensitisation** : Hazardous in case of skin contact (sensitizer).
- 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> |
|--|--------------|---------------------------|----------------|----------------|
| Hydrogenated product of an adduct of 5-Ethylidene bicyclo (2.2.1) hept-2-ene and 2-Methoxy phenol. Contained triethyl citrate as solvent. | LD50 LD50 | 4700 mg/kg >2000 mg/kg | Oral Dermal | Rat Rabbit |

- 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.

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Other Information : Magnol-R is classified as a Sensitizer. (GPMT, OECD Guideline No. 406).
Bacterial Mutation Assay (Ames Test): Negative (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA).(1)

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

Other adverse effects : No known significant effects or critical hazards.
Additional information : 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

| Regulatory Information | UN number | Proper shipping name | Class | Packing group | Label | Additional information |
|------------------------|----------------|----------------------|-------|---------------|-------|------------------------|
| ADR/RID Class | Not regulated. | - | - | | | Not available. |
| IMDG Class | Not regulated. | - | - | | | - |
| IATA-DGR Class | Not regulated. | - | - | | | Not available. |

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Irritant

Risk Phrases : R43- May cause sensitization by skin contact.

Safety Phrases : S24- Avoid contact with skin.
S37- Wear suitable gloves.

Contains : Hydrogenated product of an adduct of 5-Ethylidene bicyclo (2.2.1) hept-2-ene and 2-Methoxy phenol. Contained triethyl citrate as solvent.

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.

MAGNOL

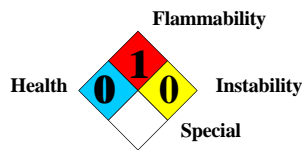
EC Statistical classification (Tariff Code) : 3302909090

Germany

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

U.S.A.

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



16. Other information

 Indicates information that has changed from previously issued version.

Other information : MAGNOL is a mixture of MAGNOL-R (pure chemical; multi component isomeric mixture) and Triethyl Citrate (as solvent) which ratio is 50 wt/wt %.information dataare based on KAO's original data.
(1) These data are concerning about MAGNOL-R.
(2) These data are concerning about MAGNOL.

Full text of R phrases referred to in Sections 2 and 3 : R43- May cause sensitization by skin contact.

Full text of classifications referred to in Sections 2 and 3 : Not applicable.

Key data sources : Not available.

Revision comments : Not available.

History

Product code : 3009019
Date of printing : 14/03/2005
Date of issue : 21/07/2004
Date of previous issue : 25/02/2003
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.