

## MATERIAL SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : RS S 513 HERBAVERT  
 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 : Flammable  
 GHS CLASSIFICATION  
 PHYSICAL AND CHEMICAL HAZARDS  
 FLAMMABLE LIQUIDS : Category 3  
 HEALTH HAZARDS  
 ACUTE TOXICITY (Oral) : Not classified  
 ACUTE TOXICITY (Dermal) : Not classified  
 ACUTE TOXICITY (Inhalation) : Classification not possible(Vapours)  
 SKIN CORROSION / IRRITATION : Category 2  
 SERIOUS EYE DAMAGE / EYE IRRITATION : Not classified  
 RESPIRATORY SENSITIZATION : Classification not possible  
 SKIN SENSITIZATION : Classification not possible  
 GERM CELL MUTAGENICITY : Classification not possible  
 CARCINOGENICITY : Classification not possible  
 REPRODUCTIVE TOXICITY : Classification not possible  
 SPECIFIC TARGET ORGAN SYSTEMIC 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 : Not classified  
 - CHRONIC TOXICITY : Not classified

## GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS :



SIGNAL WORD : Warning  
 HAZARD STATEMENTS : Flammable liquid and vapour  
 Causes skin irritation

## PRECAUTIONARY STATEMENTS

PREVENTION : Keep away from ignition sources such as heat/sparks/open flame. - No smoking.  
 Keep container tightly closed.

Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting. Use only non-sparking tools.

Wash thoroughly after handling.

Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.

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. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. Call a POISON CENTER/doctor/physician if you feel unwell. In case of fire, keep away from sources of ignition and use appropriate extinguishing media.
STORAGE	: Store container tightly closed in well-ventilated place.
DISPOSAL	: Passed to a licensed waste contractor.
SAFE HANDLING ADVICE	: Refer to MSDS.

#### [3. COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE	: Substance
INGREDIENTS AND CONCENTRATION RANGE	: 3,3,5-Trimethylcyclohexyl ethyl ether
CAS RN	: 67583-77-1

#### [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	: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation 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	: 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 spills: Dike spills and dispose of in safe area.
PREVENTION OF SECONDARY HAZARDS	: Keep away from sources of ignition and prepare extinguishing media.  Do not use tools producing sparkle.

## [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.

## 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.  
Use explosion-proof electrical equipment and prevent from static electrocity.

## 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

COLOR : Colorless clear

ODOUR : Characteristic odour

pH : Not applicable

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

BOILING POINT : No information available

MELTING POINT : No information available

FLASH POINT : 50 °C ( 122 °F) (TAG closed 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

SPECIFIC GRAVITY (DENSITY) : 0.838 g/mL ( 25 °C) ( 77 °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  
 EVAPORATION RATE : No information available  
 FLAMMABILITY (SOLID,GAS) : No information available  
 VISCOSITY : No information available  
 OTHER DATA : No information available

## [10.STABILITY AND REACTIVITY]

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

## [11.TOXICOLOGICAL INFORMATION]

## ACUTE TOXICITY

Oral

INFORMATION ON PRODUCT : Rat, LD50 : &gt; 2000 mg/kg

Dermal

INFORMATION ON PRODUCT : No information available

Inhalation

INFORMATION ON PRODUCT : No information available

## SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Hazardous in case of skin contact (irritant). (OECD404)

## SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Non-irritating to the eyes. (OECD405)

## RESPIRATORY OR SKIN SENSITIZATION

## RESPIRATORY

INFORMATION ON PRODUCT : No information available

SKIN

INFORMATION ON PRODUCT : No information available

## MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Non-mutagenic (OECD471)

## CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

IARC : Not listed

NTP : Not listed

EU : Not listed

OSHA : Not listed

## REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

## SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY

## - SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

## - REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

## ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available  
OTHER INFORMATION : No information available

## [12.ECOLOGICAL INFORMATION]

ECOTOXICITY : Brachydanio rerio (zebra-fish), 96h, LC50 : > 100 mg/L  
PERSISTENCE / DEGRADABILITY : Not readily biodegradable.  
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.  
This material is containing flammable materials.  
Be careful in case of incineration.  
Remove the contents completely in case of disposal of the container.

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 3 / UN1266	
IATA	:	UN Number	UN1266
		Proper Shipping Name	Perfumery products
		Class	3
		Packing Group	III
IMDG	:	UN Number	UN1266
		Proper Shipping Name	Perfumery products
		Class	3
		Packing Group	III
		Additional Information	Not applicable

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 : 128

## [15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	:	ENCS(Japan)	Limited
		TSCA(USA)	Yes
		EINECS(EU)	266-722-5
		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)

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