

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)



Version 1

Issue date 02-Aug-2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name AGUACATE & ARGAN T13016505

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Fragrances
For industrial use only

1.3. Details of the supplier of the safety data sheet

Takasago de México S.A de C.V
Calle 16 de septiembre #98
Col. Los Reyes Iztacala Tlalnepantla
Estado de México, CP. 54075
Tel: +52 55 5390 0877

E-mail address tdmfr_sds@takasago.com

1.4. Emergency telephone number

Emergency telephone Tel: 01 800 002 1400 /5230 5100 (SETIQ)

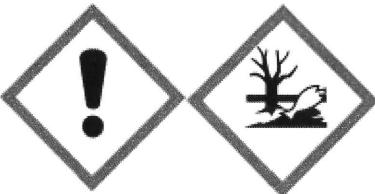
SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/irritation	Category 2 - (H319)
Skin Sensitization	Category 1 - (H317)
Chronic Aquatic Toxicity	Category 2 - (H411)

2.2. Label Elements



Signal word
Warning

Hazard Statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Contains 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one, .alpha.-Hexylcinnamaldehyde, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 4-tert-Butylcyclohexyl acetate, COUMARIN, 3,7-Dimethyloctan-3-ol, Benzyl salicylate

EUH208 - May produce an allergic reaction

Contains Allyl 3-cyclohexylpropionate, 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde, 3-p-Cumenyl-2-methylpropionaldehyde, (R)-P-MENTHA-1,8-DIENE

2.3. Other Hazards

None known

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	REACH registration number	Concentration	M-Factor	M-Factor (long-term)	Specific concentration limit (SCL)	GHS Classification
Oxydipropanol	25265-71-8	246-770-3	01-2119456811-38	>=30-<40%	-	-	-	Not classified
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	54464-57-2	259-174-3	01-2119489989-04	>=5-<10%	-	-	-	Skin Irrit. 2 (H315) Aquatic Acute 2 (H401) Skin Sens. 1B (H317) Aquatic Chronic 1 (H410)
.alpha.-Hexylcinnamaldehyde	101-86-0	202-983-3	01-2119533092-50	>=5-<10%	1	1	-	Skin Sens. 1B (H317) Acute Tox. 5 (H303) Skin Irrit. 3 (H316) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)
FLOROL	63500-71-0	405-040-6	01-2119455547-30	>=3-<5%	-	-	-	Eye Irrit. 2A (H319)
4-tert-Butylcyclohexyl acetate	32210-23-4	250-954-9	01-2119976286-24	>=3-<5%	-	-	-	Skin Sens. 1B (H317) Aquatic Acute 2 (H401) Acute Tox. 5 (H303)
Anisaldehyde	123-11-5	204-602-6	01-2119977101-43	>=3-<5%	-	-	-	Aquatic Chronic 3 (H412) Acute Tox. 5 (H303) Aquatic Acute 3 (H402)
3-Ethoxy-4-hydroxybenzaldehyde	121-32-4	204-464-7	01-2119958961-24	>=3-<5%	-	-	-	Aquatic Acute 3 (H402) Eye Irrit. 2B (H320) Acute Tox. 5 (H303)
COUMARIN	91-64-5	202-086-7	01-2119949300-45	>=1-<3%	-	-	-	Aquatic Acute 3 (H402) Skin Sens. 1B (H317) Acute Tox. 4 (H302)
3,7-Dimethyloctan-3-ol	78-69-3	201-133-9	01-2119454788-21	>=1-<3%	-	-	-	Aquatic Acute 2 (H401) Skin Sens. 1B (H317) Eye Irrit. 2A (H319) Skin Irrit. 2 (H315) Flam. Liq. 4 (H227)
Benzyl salicylate	118-58-1	204-262-9	01-2119969442-31	>=1-<3%	-	-	-	Aquatic Chronic 3 (H412) Aquatic Acute 2 (H401) Skin Sens. 1B (H317) Eye Irrit. 2B (H320) Acute Tox. 5 (H303)
2-tert-Butylcyclohexyl acetate	88-41-5	201-828-7	01-2119970713-33	>=1-<3%	-	-	-	Acute Tox. 5 (H303) Skin Irrit. 3 (H316) Aquatic Acute 2 (H401) Flam. Liq. 4 (H227) Aquatic Chronic 2 (H411)
Benzyl Acetate	140-11-4	205-399-7	01-2119638272-42	>=1-<3%	-	-	-	Acute Tox. 5 (H303)

								Aquatic Acute 2 (H401) Aquatic Chronic 3 (H412)
alpha,alpha-dimethylphenyl butyrate	10094-34-5	233-221-8	01-2120742578-44	>=1-<3%	-	-	-	Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
2-Phenylethanol	60-12-8	200-456-2	01-2119963921-31	>=1-<3%	-	-	-	Acute Tox. 5 (H313) Acute Tox. 4 (H302) Skin Irrit. 3 (H316) Eye Irrit. 2A (H319)
Undecan-4-olide	104-67-6	203-225-4	01-2119959333-34	>=1-<3%	-	-	-	Aquatic Chronic 3 (H412) Aquatic Acute 3 (H402) Skin Irrit. 3 (H316)
(R)-P-MENTHA-1,8-DIENE	5989-27-5	227-813-5	01-2119529223-47	>=0.1-<1%	1	1	-	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	204-881-4	01-2119565113-46	>=0.1-<1%	1	1	-	Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400)
3-p-Cumanyl-2-methylpropionaldehyde	103-95-7	203-161-7	01-2119970582-32	>=0.1-<1%	-	-	-	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Flam. Liq. 4 (H227) Acute Tox. 5 (H303) Aquatic Chronic 3 (H412) Aquatic Acute 2 (H401)
Allyl heptanoate	142-19-8	205-527-1	01-2119488961-23	>=0.1-<1%	1	1	-	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) Acute Tox. 3 (H311) Acute Tox. 3 (H301) Flam. Liq. 4 (H227)
(1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol	68877-29-2	272-556-4	No data available	>=0.1-<1%	-	-	-	Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) Skin Irrit. 3 (H316)
Allyl 3-cyclohexylpropionate	2705-87-5	220-292-5	01-2119976355-27	>=0.1-<1%	1	1	-	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Sens. 1 (H317) Acute Tox. 4 (H332) Acute Tox. 4 (H302) Acute Tox. 4 (H312)
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	268-264-1	01-2119982384-28	>=0.1-<1%	-	-	-	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411) Flam. Liq. 4 (H227) Acute Tox. 5 (H303) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Aquatic Acute 2 (H401)
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4	260-709-8	01-2119535122-53	>=0.1-<1%	-	-	-	Skin Irrit. 2 (H315) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Sens. 1A (H317)
4-Methyl-3-decen-5-ol	81782-77-6	279-815-0	01-2119983528-21	>=0.1-<1%	1	-	-	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Flam. Liq. 4 (H227)
Benzaldehyde	100-52-7	202-860-4	01-2119455540-44	>=0.1-<1%	-	-	-	Acute Tox. 4 (H332) Acute Tox. 4 (H302) Acute Tox. 5 (H313) Eye Irrit. 2A (H319) Aquatic Acute 2 (H401) Flam. Liq. 4 (H227) Skin Irrit. 3 (H316) STOT SE 3 (H335)
DIPHENYL ETHER	101-84-8	202-981-2	01-2119472545-33	>=0.1-<1%	1	-	-	Eye Irrit. 2A (H319) Aquatic Acute 1 (H400) Skin Irrit. 3 (H316) Acute Tox. 5 (H303) Aquatic Chronic 3 (H412)

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	When in doubt or if symptoms are observed, get medical advice.
Inhalation	Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.
Skin contact	Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.
Eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
Ingestion	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.
Self-protection of the first aider	Use personal protection recommended in Section 8.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	No known symptoms to date.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Foam. Carbon dioxide (CO2). Dry extinguishing powder.
Large Fire	Alcohol resistant foam. Water spray.
Unsuitable extinguishing media	Full water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated. Carbon monoxide. Carbon dioxide (CO2). Burning produces heavy smoke. Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Remove all sources of ignition. Provide adequate ventilation as well as local exhaust at critical locations. See section 7 for more information.
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For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Clear contaminated areas thoroughly.

6.4. Reference to other sections

See Section 13: DISPOSAL CONSIDERATIONS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wear protective gloves and eye/face protection. See Section 8 for information on appropriate personal protective equipment. Remove all sources of ignition. Provide adequate ventilation as well as local exhaust at critical locations. Handle and open container with care.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Protect from direct sunlight. Remove all sources of ignition. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.3. Specific end use(s)

Specific Use(s) Not relevant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Chemical name	European Union	France	United Kingdom	Germany	Spain
Oxydipropanol 25265-71-8				100 MGM3 Inhalable fraction. STEL or Ceiling multiplication factor: 2	
Benzyl Acetate 140-11-4					62 MGM3 10 PPM (TWA)
(R)-P-MENTHA-1,8-DIENE 5989-27-5				28 MGM3 5 PPM STEL or Ceiling multiplication factor: 4 S*	168 MGM3 30 PPM (TWA) S*
2,6-DI-TERT-BUTYL-P-CRE SOL 128-37-0		10 MGM3 (VME)	10 MGM3 (TWA)	10 MGM3 Inhalable fraction. STEL or Ceiling multiplication factor: 4	10 MGM3 (TWA)
DIPHENYL ETHER 101-84-8	14 MGM3 2 PPM Indicative (STEL) 7 MGM3 1 PPM Indicative (TWA)	7 MGM3 1 PPM (VME)	14 MGM3 2 PPM (STEL) 7 MGM3 1 PPM (TWA)	7.1 MGM3 1 PPM Vapor. STEL or Ceiling multiplication factor: 1	14.2 MGM3 2 PPM Vapor. (STEL) 7.1 MGM3 1 PPM Vapor. (TWA)

Chemical name	Netherlands	Italy	Poland	Ireland	Austria
Benzyl Acetate 140-11-4		10 PPM (TWA)		10 PPM (TWA)	
2,6-DI-TERT-BUTYL-P-CRE SOL 128-37-0		2 MGM3 Inhalable fraction and vapor. (TWA)		2 MGM3 (TWA)	10 MGM3 (TWA)
Benzaldehyde 100-52-7			40 MGM3 (STEL - NDSch) 10 MGM3 (TWA - NDS)		
DIPHENYL ETHER 101-84-8	7 MGM3 (TWA) 14 MGM3 15MIN (STEL)	7 MGM3 1 PPM (TWA) 14 MGM3 2 PPM (STEL)	14 MGM3 (STEL - NDSch) 7 MGM3 (TWA - NDS)	14 MGM3 2 PPM Vapor. (STEL) 7 MGM3 1 PPM Vapor. Indicative OELV (TWA)	14 MGM3 2 PPM Vapor. (STEL) 7 MGM3 1 PPM Vapor. (TWA)

Chemical name	Portugal	Switzerland	Greece	Czech Republic	Denmark
Oxydipropanol 25265-71-8		280 MGM3 Vapor and aerosol, inhalable. (STEL) 140 MGM3 Vapor and aerosol, inhalable. (TWA)			
Benzyl Acetate 140-11-4	10 PPM (TWA - VLE)				61 MGM3 10 PPM (TLV)
(R)-P-MENTHA-1,8-DIENE 5989-27-5		40 MGM3 7 PPM (TWA) 80 MGM3 14 PPM (STEL)			25 PPM (TLV)
2,6-DI-TERT-BUTYL-P-CRE SOL 128-37-0	2 MGM3 Inhalable fraction and vapor. (TWA - VLE)	40 MGM3 Vapor and aerosol, inhalable. (STEL) 10 MGM3 Vapor and aerosol, inhalable. (TWA)	10 MGM3 (TWA)		10 MGM3 (TLV)
DIPHENYL ETHER 101-84-8	14 MGM3 2 PPM (STEL - OEL) 7 MGM3 1 PPM (TWA - OEL) 2 PPM Vapor. (STEL - VLE) 1 PPM Vapor. (TWA - VLE)	7 MGM3 1 PPM Vapor and aerosol. (TWA) 7 MGM3 1 PPM Vapor and aerosol. (STEL)	7 MGM3 1 PPM (TWA) 14 MGM3 2 PPM (STEL)	10 MGM3 (Ceiling) 5 MGM3 (TWA)	7 MGM3 1 PPM (TLV)

Chemical name	Belgium	Sweden	Hungary	Bulgaria	Croatia
Benzyl Acetate 140-11-4	62 MGM3 10 PPM (TWA)				
(R)-P-MENTHA-1,8-DIENE 5989-27-5		150 MGM3 25 PPM (TWA) 300 MGM3 50 PPM (STEL)			
2,6-DI-TERT-BUTYL-P-CRE SOL 128-37-0	2 MGM3 Vapor and aerosol. (TWA)			50 MGM3 (STEL) 10 MGM3 (TWA)	10 MGM3 (GVI)
Benzaldehyde 100-52-7			10 MGM3 (STEL) 5 MGM3 (TWA)	5.0 MGM3 (TWA)	
DIPHENYL ETHER 101-84-8	14 MGM3 2 PPM Vapor. (STEL) 7 MGM3 1 PPM Vapor. (TWA)	14 MGM3 2 PPM (Ceiling) 7 MGM3 1 PPM (TWA)	7 MGM3 (TWA) 14 MGM3 (STEL)	14 MGM3 2 PPM (STEL) 7 MGM3 1 PPM (TWA)	14 MGM3 2 PPM (KGVI) 7 MGM3 1 PPM (GVI)

Derived No Effect Level (DNEL) Not applicable

Predicted No Effect Concentration (PNEC) Not applicable

8.2. Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Eye glasses with side protection.
Hand protection	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training.
Skin and body protection	Wear appropriate personal protective clothing to prevent skin contact.
Respiratory protection	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Environmental exposure controls	Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	CLEAR LIQUID
Color	COLOURLESS TO LIGHT YELLOW
Odor	MANZANA, VAINILLA, ALMENDRA, MANZANA VERDE, MIEL

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Flash point	90 °C / 194 °F	CC (closed cup)
Autoignition temperature	No data available	
Decomposition temperature	No data available	
pH	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Water solubility	No data available	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	
Vapor pressure	0.07150 mmHg@20°C (calculated)	
Specific gravity	No data available	
Specific gravity	No data available	
Vapor density	No data available	
Particle characteristics	No data available	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions. Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Product Information**

The product has not been tested

Acute toxicity

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,189.10 mg/kg
ATEmix (dermal) 4,958.10 mg/kg

Skin corrosion/irritation No information available.

Serious eye damage/irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Specific target organ toxicity - Single exposure No information available.

Specific target organ toxicity - Repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

No information available

SECTION 12: Ecological information**12.1. Toxicity**

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of waste product or used containers according to local regulations.

Contaminated packaging Do not reuse container. Dispose of waste product or used containers according to local regulations.

SECTION 14: Transport information

Sea transport (IMDG)

14.1 UN/ID no	3082
14.2 Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one AND .alpha.-Hexylcinnamaldehyde)
14.3 Hazard Class	9
14.4 Packing group	III
14.5 Marine Pollutant	Yes
14.6 Special Provisions	None
EmS No	F-A S-F

ADR/RID

14.1 UN/ID no	3082
14.2 Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one AND .alpha.-Hexylcinnamaldehyde)
14.3 Hazard Class	9
14.4 Packing group	III
14.5 Environmental Hazard	Yes
14.6 Special Provisions	None

Air transport (ICAO-TI / IATA-DGR)

14.1 UN/ID no	3082
14.2 Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one AND .alpha.-Hexylcinnamaldehyde)
14.3 Hazard Class	9
14.4 Packing group	III
14.5 Environmental Hazard	Yes
14.6 Special Provisions	None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006) .

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) .

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapor
 H227 - Combustible liquid
 H301 - Toxic if swallowed
 H302 - Harmful if swallowed
 H303 - May be harmful if swallowed
 H304 - May be fatal if swallowed and enters airways
 H311 - Toxic in contact with skin
 H312 - Harmful in contact with skin
 H313 - May be harmful in contact with skin
 H315 - Causes skin irritation
 H316 - Causes mild skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H320 - Causes eye irritation
 H332 - Harmful if inhaled
 H400 - Very toxic to aquatic life
 H401 - Toxic to aquatic life
 H402 - Harmful to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H411 - Toxic to aquatic life with long lasting effects
 H412 - Harmful to aquatic life with long lasting effects

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	ATE	Acute Toxicity Estimate
DNEL	Derived No Effect Level (DNEL)	GHS	Globally Harmonized System (GHS)
IATA	International Air Transport Association (IATA)	IMDG	International Maritime Dangerous Goods (IMDG)
PNEC	Predicted No Effect Concentration (PNEC)	PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals		

Classification procedure

Calculation method, Classification is based on mixture calculation methods based on component data.

Key literature references and sources for data

IFRA-IOFI Labelling Manual 2021
 RIFM/IOFI database
 Supplier

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Where the handling, storage and disposal of this material is beyond the immediate control of Takasago, it shall be the user's responsibility to determine safe conditions for use of this product. The user assumes all liability for loss, injury, damage or expense resulting from the improper use of this product.

End of Safety Data Sheet