

ALZE KİMYA

# SAFETY DATA SHEET

PINE E\_1229617

## [x] 1 PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

PINE E\_1229617

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

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

### 1.3 Details of the supplier of the safety data sheet

Supplier : Alze Kimya Sanayi ve Dış Ticaret Ltd. Şti.  
Address : Hürriyet Mah. Cengiz Topel Cad. No:85 Küçükköy GOP İstanbul Turkey  
Telephone : +90 530 170 08 17  
e-mail : info@alzekimya.com

### 1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

## [x] 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

#### Physical hazards

No hazard specified.

#### Health Dangers

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Irrit. 2: Causes serious eye irritation.

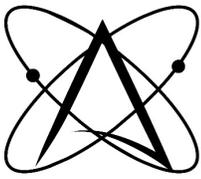
#### Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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GHS07

GHS09

## WARNING

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

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.

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

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains Alpha PINENE, UNDECANAL, 2-METHYL, (-) TRANS BETA CARYOPHYLLENE, METHYL 3,6-DIMETHYL RESORCYLATE. May produce an allergic reaction.

## 2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

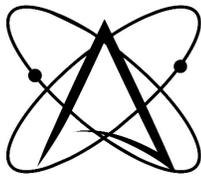
## [x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

CAS-No.: Not applicable

### 3.2 Mixtures

Hazardous Substances

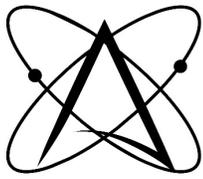


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Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
Alpha TERPINEOL	98-55-5		[5 % , 10 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
DIPHENYL ETHER	101-84-8		[5 % , 10 %]	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
CAMPHOR	76-22-2		[5 % , 10 %]	Flam. Sol. 2, H228 Acute Tox. 4 Oral, H302 Acute Tox. 4 Inhalation, H332 STOT-SE 2, H371
TERPINOLENE	586-62-9		[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Beta TERPINEOL	138-87-4		[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
Gamma TERPINEOL	586-81-2		[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
EUCALYPTOL	470-82-6		[1 % , 5 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317
LONGIFOLENE	475-20-7		[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OCTAHYDRO TETRAMETHYL ACETONAPHTONE	54464-57-2		[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 1, H410
Alpha PINENE	80-56-8		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CAMPHENE	79-92-5		[0.1 % , 1 %]	Flam. Sol. 2, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
UNDECANAL, 2-METHYL	110-41-8		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
MYRCENE	123-35-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
METHYL 3,6-DIMETHYL RESORCYLATE	4707-47-5		[0.1 % , 1 %]	Skin Sens. 1B, H317



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Ingredients having an occupational exposure limit value: See section 8.

## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Get medical attention if symptoms persist.

### 4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

## 5 FIRE-FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

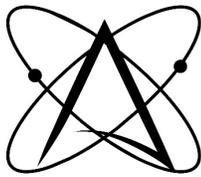
### 5.3 Advice for firefighters

No specific precautions.

## [x] 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.



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## 6.2 Environmental precautions

There must be no release into the environment.

## 6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

## 6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.  
For waste disposal, see section 13 of the SDS.

## [x] 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.  
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.  
Do not breathe vapor from heated material.

### 7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

### 7.3 Specific end use(s)

No specific precautions.

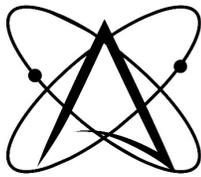
## [x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Occupational exposure limits

#### National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m <sup>3</sup> )
DIPHENYL ETHER	101-84-8	[5 % , 10 %]	CHINA: 7 GERMANY: 7.1 FRANCE: 7 INDONESIA: None UNITED STATES: 1 (ACGIH)
CAMPHOR	76-22-2	[5 % , 10 %]	CHINA: None



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			GERMANY: 13 FRANCE: 12 INDONESIA: 12 UNITED STATES: 2 (ACGIH)
LIMONENES	138-86-3	[1 % , 5 %]	CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None UNITED STATES: 30 (AIHA)

## European Indicative OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
DIPHENYL ETHER	101-84-8	[5 % , 10 %]	7

## 8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

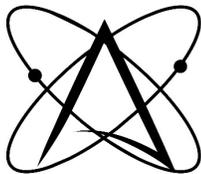
Discharge, treatment, or disposal may be subject to national, state, or local laws.

## [x] 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 78 °C (172.4 °F)
- Evaporation Rate: No data available.

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- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.956 / 0.986
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

## 9.2 Other information

No other information noted.

## 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

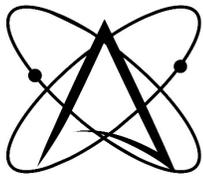
No data available.

### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3 Possibility of hazardous reactions

No data available.



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## 10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

## 10.5 Incompatible materials

No data available.

## 10.6 Hazardous decomposition products

No data available.

## [x] 11 TOXICOLOGICAL INFORMATION

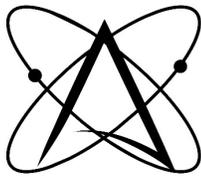
### 11.1 Information on toxicological effects

#### Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)  
LD50 Oral(mg/kg) 4620.0 (Unknown: 0%) (Calculated)  
CL50 Inhalation - vapor(mg/l) > 100 (Unknown: 0%) (Calculated)

#### Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
Alpha TERPINEOL	98-55-5	[5 % , 10 %[	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
DIPHENYL ETHER	101-84-8	[5 % , 10 %[	> 5000 <i>Estimated</i>	2830 <i>Measured</i>	> 100 <i>Estimated</i>
CAMPHOR	76-22-2	[5 % , 10 %[	> 5000 <i>Estimated</i>	1500 <i>Estimated</i>	11 <i>Estimated</i>
TERPINOLENE	586-62-9	[1 % , 5 %[	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta TERPINEOL	138-87-4	[1 % , 5 %[	> 5000 <i>Estimated</i>	2075 <i>Estimated</i>	> 100 <i>Estimated</i>
Gamma TERPINEOL	586-81-2	[1 % , 5 %[	> 5000 <i>Estimated</i>	3934 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	[1 % , 5 %[	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
LONGIFOLENE	475-20-7	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
OCTAHYDRO TETRAMETHYL	54464-57-2	[1 % , 5 %[	> 5000	> 5000	> 100



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<b>ACETONAPHTONE</b>			<i>Estimated</i>	<i>Estimated</i>	<i>Estimated</i>
<b>Alpha PINENE</b>	80-56-8	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
<b>UNDECANAL, 2-METHYL</b>	110-41-8	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
<b>(-) TRANS BETA CARYOPHYLLENE</b>	87-44-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
<b>METHYL 3,6-DIMETHYL RESORCYLATE</b>	4707-47-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.  
Specific Target Organ - Repeated Exposure : No data available.  
Respiratory Sensitization : No data available.  
Reproductive toxicity : No data available.  
Germ cell mutagenicity : No data available.  
Serious eye damage/irritation : No data available.  
Skin Sensitization : No data available.  
Aspiration Hazard : No data available.  
Specific Target Organ - Single Exposure : No data available.  
Specific Target Organ (NE) - Single Exposure : No data available.  
Cancerogenicity : No data available.

## 11.2 Information on likely routes of exposure

No data available.

## 11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

## 11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

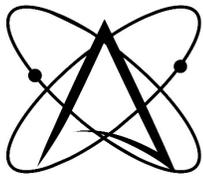
## 11.5 Interactive effects

No data available.

## 11.6 Other information

No other information noted.

## 12 ECOLOGICAL INFORMATION



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## 12.1 Toxicity

### Product Information

Toxicity Fish : No data available.  
Toxicity Alga : No data available.  
Toxicity Water Flea : No data available.

## 12.2 Persistence and degradability

Biodegradability : No data available.  
Hydrosolubility : No data available.  
Comments : None

## 12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.  
Bio Concentration Factor : No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

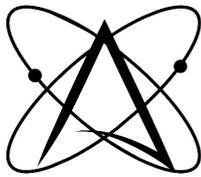
## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

### 13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).



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## [x] 14 TRANSPORT INFORMATION

### ADR

UN number : 3082  
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
( DIPHENYL ETHER, TERPINOLENE )  
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND  
ARTICLES  
Packaging group : III  
Environmental dangers : Yes.  
Tunnel restriction code : E

### IATA

UN number : 3082  
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
( DIPHENYL ETHER, TERPINOLENE )  
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND  
ARTICLES  
Packaging group : III  
Environmental dangers : Yes.

### IMDG

UN number : 3082  
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
( DIPHENYL ETHER, TERPINOLENE ) POLLUTANT  
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND  
ARTICLES  
Packaging group : III  
Environmental dangers : Yes.  
Marine polutants : P - pollutant

### RID

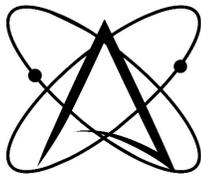
UN number : 3082  
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
( DIPHENYL ETHER, TERPINOLENE )  
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND  
ARTICLES  
Packaging group : III  
Environmental dangers : Yes.  
Tunnel restriction code : E

### 14.1 Special precautions for user

No recommendation given.

## [x] 15 REGULATORY INFORMATION

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



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**Water Hazard Class (WGK):** WGK 3 (Severe hazard to water)

**Regulation (EC) No 1907/2006, if relevant :**

REACH	REACH Registration No.
oxydipropanol	01-2119456811-38-XXXX
Diphenyl ether	01-2119472545-33-XXXX
Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	01-2119489989-04-XXXX
terpineol	01-2119553062-49-XXXX
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acetate	01-21199001856-34-XXXX
Bornan-2-one	01-2119966156-31-XXXX
2-methylundecanal	01-2119969443-29-XXXX
Reaction mass of 1-methyl-4-(1-methylethylidene)cyclohexyl acetate and p-menth-1-en-8-yl acetate	01-2119977127-29-XXXX

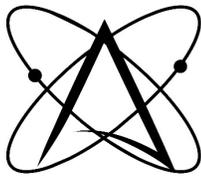
## 15.2 Chemical safety assessment

No data available.

## [x] 16 OTHER INFORMATION

### 16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs.
H400	Very toxic 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.
H413	May cause long lasting harmful effects to aquatic life.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

## 16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service  
CO2: Carbon dioxide  
LD50: Lethal dose 50  
NTP: National Toxicology program  
IARC: International Agency for Research on Cancer  
OSHA: Occupational Safety and Health Administration  
UN: United Nations  
IMDG : International Maritime Dangerous Goods  
IATA : International Air Transport Association

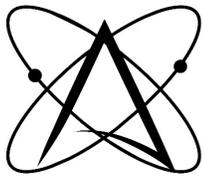
## Classification codes

Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Aquatic Chronic 4	: Chronic hazards to the aquatic environment Category 4
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Flam. Sol. 2	: Flammable solid Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B
STOT-SE 2	: Specific target organ toxicity - single exposure Category 2

## 16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.



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# SAFETY DATA SHEET

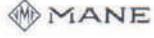
PINE E\_1229617

**We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.**

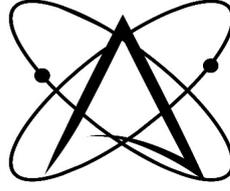
**It is the user's liability to conform to all local, national, and international regulations that apply to its activities.**

**This automatically generated safety data sheet is valid without signature.**

WE  
CAPTURE  
WHAT  
MOVES



# Certificate of Analysis



ALZE KİMYA

Alze Kimya Sanayi ve Dış Ticaret  
Ltd. Şti.  
Hürriyet Mah. Cengiz Topel Cad. No:85  
Küçükköy GOP İstanbul  
Turkey

Order / Item : 281595 000010  
Delivery / Item : 80310083 000010  
Contact : Lea HEEMS

Your Reference: PO 2021-100

E\_1229617  
PINE

Batch : 0000742908  
Delivered Qty : 400 KG

Inspection lot : 40000599803  
Manufacturing date : 22 OCT 2021  
Best before date : 22 OCT 2023

Characteristic	Value	Unit	Lower Limit	Upper Limit
olfactive inspection	Conform	-	Conform / Not conform	
visual texture inspection	Conform	-	Conform / Not conform	
visual color inspection	Conform	-	Conform / Not conform	
specific gravity 20/20°C	0,9713		0,9560	0,9860
specific gravity 25/25°C	0,9681		0,9528	0,9828
refractive index at 20°C	1,4714		1,4610	1,4810
refractive index at 25°C	1,4692		1,4588	1,4788

Date : 28 OCT 2021

Quality Control Department

"This computer generated Certificate of Analysis is valid without signature"