

Created on: 12.02.2020 Page: 1 of 9 v.4 08/2019	SAFETY DATA SHEET according to regulation (EC) 1907/2006 according to regulation (EU) 2015/830 1761 Kewra	
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1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

Trade Name:	Kewra
Botanical Name:	Pandanus odoratissimus L.
INCI:	Pandanus odoratissimus L. Oil
CAS TSCA-No:	91770-47-7
CAS EINECS-No:	91770-47-7
EINECS-No.:	294-832-3
FEMA-No.:	/

1.2 Relevant identified uses of the substance and uses advised against

Substance use:	Perfumery and/or aromatic uses
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1.3 Details of the supplier of the safety data sheet

Supplier name:	AYUS GmbH
Address:	Am Dreschschopf 1, 77815 Bühl, Deutschland
Phone:	+49 7227 600 99-0
Fax:	+49 7227 600 99-99
E-mail:	info@oshadhi.eu

1.4 Emergency telephone number

Poison emergency number: +49 89-19240



2. HAZARDS IDENTIFICATION

2.1 Classification of the substance according to regulation (EG) 1272/2008 (CLP)

Hazard class and Hazard category	Code	Hazard statement
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Causes serious eye damage/irritation, category 2	H319	Causes serious eye irritation.
Respiratory/skin sensitisation, respiratory sensitisation category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

Hazard pictogram and signal word

				
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DANGER:

H-Statements:

H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P-Statements:

Prevention:

P261	Avoid breathing dust /fume /gas /mist /vapours /spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves /eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
Response:	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P337+P313	If eye irritation persists: Get medical advice /attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Storage:	
P405	Store locked up.
Disposal:	
P501	Dispose of contents /container to special waste.

2.3 Other Hazards

Allergens (according to regulation (EC) No 1223/2009 on cosmetic products)

Allergens	Concentration
Limonene	< 0.5 %
Geraniol	< 2.0 %
Linalool	< 3.0 %

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Identification: Pandanus odoratissimus L. oil (100% natural essential oil)

Hazardous constituent: according to EG-Regulation 1272/2008 (CLP)

Ingredient	Concentration	Registration-N.	CLP-Classification
1,8-Cineol (Eucalyptol)	< 10,0 %	CAS-No: 470-82-6 EINECS-No: 207-431-5	Flam. Liq. 3, H226 Skin Sens. 1, H317
alpha-Pinene	< 6,0 %	CAS-No: 80-56-8 EINECS-No: 201-291-9	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
alpha-Terpinene	< 1,5 %	CAS-No: 99-86-5 EINECS-No: 202-795-1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
alpha-Terpineol	< 3,0 %	CAS-No: 98-55-5 EINECS-No: 202-680-6	Skin Irrit. 2, H315 Eye Irrit. 2, H319
beta-Pinene	< 3,0 %	CAS-No: 127-91-3 EINECS-No: 204-872-5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400
Borneol	< 0,5 %	CAS-No: 507-70-0 EINECS-No: 207-353-1	Flam. Sol. 1, H228
Bornyl acetate	< 2,0 %	CAS-No: 76-49-3 EINECS-No: 200-964-4	No records,

gamma-Terpinene	< 5,0 %	CAS-No: 99-85-4 EINECS-No: 202-794-6	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Geraniol	< 2,0 %	CAS-No: 106-24-1 EINECS-No: 203-377-1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318
Limonene	< 0,5 %	CAS-No: 5989-27-5 EINECS-No: 227-813-5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Linalool	< 3,0 %	CAS-No: 78-70-6 EINECS-No: 201-134-4	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319
Linalool oxide	< 2,0 %	CAS-No: 1365-19-1 EINECS-No: 215-723-9	Flam. Liq. 3, H226 Acute Tox. 3, H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Linalyl acetate	< 0,5 %	CAS-No: 115-95-7 EINECS-No: 204-116-4	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Methyl phenethyl ether	< 55,0 %	CAS-No: 3558-60-9 EINECS-No: 222-619-7	Flam. Liq. 3, H226
Myrcene	< 0,5 %	CAS-No: 123-35-3 EINECS-No: 204-622-5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319
p-Cymene	< 2,0 %	CAS-No: 99-87-6 EINECS-No: 202-796-7	Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Phenylethyl alcohol	< 1,2 %	CAS-No: 60-12-8 EINECS-No: 200-456-2	Acute Tox. 4, H302 Acute Tox. 3, H311 Eye Irrit. 2, H319
Terpinene-4-ol	< 20,0 %	CAS-No: 562-74-3 EINECS-No: 209-235-5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
trans-Linalool-oxide	< 1,5 %	CAS-No: 34995-77-2 EINECS-No: 252-312-3	No records,

4. FIRST AID MEASURES

4.1 Description of first aid measures

Excessive inhalation:	Remove to fresh air environment – summon a physician immediately.
Skin contact:	Wash contaminated skin with copious amounts of water and soap. Remove contaminated clothes and wash them before reuse. Summon a physician, if an irritation appears.
Eye contact:	Wash contaminated skin with copious amounts of water for at least 10 minutes – open eyelids forcibly. Summon a physician immediately.
Ingestion:	Dilute with water. Do not induce vomiting. Contact physician.

4.2 Most important symptoms and effects, both acute and delayed

No further details.

4.3 Indication of any immediate medical attention and special treatment needed

Contact a poison specialist immediately if large quantities have been ingested or inhaled.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Advised extinguisher: Use CO₂, dry powder, fire extinguisher or foam.

Unadvisable extinguisher: Direct jet of water.

5.2 Special hazards arising from the substance or mixture

Avoid breathing vapours and smokes produced by fire.

Burning will cause strong smoke and soot.

5.3 Advice for firefighters

Do not attempt to fight the fire with water, which tends to feed rather than smother the flames. Essential oils have the ability to float on water and this causes the fire to propagate more quickly.

Small fires can be smothered by covering with earth, sand or a blanket.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid skin, eye and clothes contact. There is a risk of sliding caused by the leaked product. Ventilate well spilling area. Keep away from sources of ignition.

6.2 Environmental precautions

Avoid dispose into drainage, sewer system or in any natural environment. Dispose binding material, cloths and sponges according to the national law.

6.3 Methods and material for containment and cleaning up

Use of absorbent material (e.g. sand, diatomaceous earth).

6.4 Reference to other sections

Please see section 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ventilate the storage and preparation warehouse/laboratory. Avoid eating, drinking and smoking in the places where products are stored and treated. Manipulate with caution to avoid any projection particularly in eyes and on mucous membranes. Do not expose vapors to the flame or quite other source of ignition. Do not inhale warm vapors.

7.2 Conditions for safe storage, including any incompatibilities

It is recommended to keep the product in a water-tight and air-tight container. Keep away from heat and sunlight. Store in a cool and good ventilated area.

7.3 Specific end uses

No specific.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Please pay attention to the usual precautionary measures with the contact of essential oils. Use good hygiene practice: Please wash before contact, before eating and at the end of the working day.

8.2 Exposure controls

Personal protective equipment:

Breathing protection:

Use in well aired areas.

Eye protection:

Safety glasses.

Hand protection:

Protecting gloves.

Skin protection:

Avoid skin contact. Protective suit should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Color: colorless to yellowish

Appearance: oily liquid

Odor: strong, characteristic

pH-value: no data available

Flash point: > 100°C

Water solubility: Insoluble

Steam pressure:	Unavailable
Initial boiling point and boiling range:	Unavailable
Relative density at 20 °C:	0,925 - 0,945
Refractive index at 20°C:	1,48 - 1,496
Optical rotation at 20°C:	+2° to +2°

9.2 Other information:

Main components: Pandanus odoratissimus L. Oil, Geraniol, Limonene, Linalool

10. STABILITY AND REACTIVITY

10.1 Reactivity

This product is stable under normal usage conditions.

10.2. Chemical stability

This product is stable under normal usage conditions.

10.3 Possibility of hazardous reactions

None according to our knowledge.

10.4 Conditions to avoid

Do not expose to high temperature or ignition.

10.5 Incompatible materials

Avoid flammable materials, PVC.

10.6 Hazardous decompositions products

Nothing in proper storage conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological specifications of the important substances:

Chemical description	Oral LD50	Dermal LD50	Inhalation LC50
1,8-Cineol (Eucalyptol)	2.480 mg/kg (rat)	/	/
alpha-Pinene	3.700 mg/kg (rat)	> 5.000 mg/kg (rabbit)	/
alpha-Terpinene	1.680 mg/kg (rat)	/	/
alpha-Terpineol	5.170 mg/kg (rat)	/	/
beta-Pinene	4.700 mg/kg (rat)	/	/
Borneol	4.300 mg/kg (rat)	> 3.000 mg/kg (rabbit)	/
Bornyl acetate	/	/	/
gamma-Terpinene	3.650 mg/kg (rat)	/	/
Geraniol	3.600 mg/kg (rat)	> 5.000 mg/kg (rabbit)	/
Limonene	4.400 mg/kg (rat)	> 5.000 mg/kg (rabbit)	/
Linalool	2.790 mg/kg (rat)	5.610 mg/kg (rabbit)	/
Linalool oxide	/	/	/
Linalyl acetate	13.900 mg/kg (rat)	/	/
Methyl phenethyl ether	/	/	/
Myrcene	> 11.390 mg/kg (rat)	> 5.000 mg/kg (rabbit)	/
p-Cymene	1.400 mg/kg (rat)	> 5.000 mg/kg	/
Phenylethyl alcohol	1.790 mg/kg (rat)	806 mg/kg (rabbit)	/
Terpinene-4-ol	1.300 mg/kg (rat)	/	/
trans-Linalool-oxide	/	/	/

Skin corrosion/irritation:

No significant effects or critical hazards.

Serious eye damage/irritation:

H319 Causes serious eye irritation.

Respiratory or skin sensitization:

No significant effects or critical hazards.

Aspiration hazard:

H304 May be fatal if swallowed and enters airways.

Germ cell mutagenicity:

No significant effects or critical hazards.

Carcinogenicity:

No significant effects or critical hazards.

Reproductive toxicity:

No significant effects or critical hazards.

STOT-single exposure

Unavailable data.

STOT-repeated exposure

Unavailable data.

Information on likely routes of exposure

Unavailable data.

Symptoms related to the physical, chemical and toxicological characteristics

Unavailable data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Unavailable data.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Use product only referred of good laboratory practice (GLP) to insure that it is not released into the environment.

According to regulation 1272/2008:

No significant effects or critical hazards.

Daphnies toxicity (EC50):

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential**Bioconcentration factor (BCF):**

No further relevant information available.

Partition coefficient n-octanol / water (log K_{OW})

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

No further relevant information available.

12.6 Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Waste should be recycled or disposed of according to the legislation in force, preferably by an approved recycling or waste treatment company.

14. TRANSPORT INFORMATION

14.1 UN-number

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14.2 UN proper shipping name

Land transport: ADR/RID; Dispatch Name: EXTRAKTE, AROMATISCH, FLÜSSIG

Transport by sea: IMDG/IMO; Technical Name: EXTRACTS, AROMATIC, LIQUID

Transport by air: ICAO/IATA; Technical Name: EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class

ADR/RID: Class 3

IMDG/IMO: Class 3

ICAO/IATA: Class 3

14.4 Packing group

ADR/RID: Packing group III, Kemler code: 30

IMDG/IMO: Packing group III

ICAO/IATA: Packing group III

14.5 Environmental hazards

IMDG - Sea pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations (legislation) specific for the substance or mixture

Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances and its subsequent amendments.

Directive 1999/45/EC of the European Parliament concerning the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous preparations and its subsequent amendments.

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work preparations.

Directive 2003/15/EC

Directive 2006/8/EC

Directive 91/322/EEC

Directive 2000/39/EC

Regulation (EC) No 1907/2006 (REACH) and its subsequent amendments

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) No 790/2009

Directive 2003/105/EC - Protection of workers - Control of major-accident hazards involving dangerous substances and its subsequent amendments

German Regulation on Substances Hazardous to Water 2005 (VwVwS),

15.2 Chemical safety assessment

Not relevant.

16. OTHER INFORMATION

Latest changes

This data sheet replaces all previous editions. The content of the SDS is regulated by the Regulation (EC) n°1907/2006 (REACH).

Common shortened form:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
CLP:	Classification, Labeling, Packaging
EINECS:	European Inventory of Existing Commercial Chemical Substances
FEMA:	Federal Emergency Management Agency
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
IATA:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA)
ICAO:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG:	International Maritime Code for Dangerous Goods
IMO:	International Maritime Organization
INCI:	International Nomenclature of Cosmetic Ingredients
LC50:	Lethal Concentration for 50 percent of the test population
LD50:	Lethal Dose for 50 percent of the test population
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
PBT:	Persistent Bioaccumulating Toxicants
vPvB:	Very Persistent and Very Bioaccumulative Substance
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
TSCA:	Toxic Substances Control Act

Hazard statements according to regulation (EC) 1272/2008 (CLP):

Code	Description
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precaution statements according to regulation (EC) 1272/2008 (CLP):

Code	Description
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Prevention:

P261	Avoid breathing dust /fume /gas /mist /vapours /spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves /eye protection.
P285	In case of inadequate ventilation wear respiratory protection.

Response:

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P337+P313	If eye irritation persists: Get medical advice /attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage:

P405	Store locked up.
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Disposal:

P501	Dispose of contents /container to special waste.
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Training advice:

Possible hazards:	see section 2
First aid measures:	see section 4
Firefighting measures:	see section 5
Personal protection equipment:	see section 8
Waste treatment methods:	see section 13

The information this contains is based on the state of our knowledge about the product concerned at the time of update. They are given in good faith. The information given is designed only as 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. Even though precaution has been taken to ensure accuracy of data, no guarantee can be given. Because data's are taken partly from other sources.

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