Safety Data Sheet

Approved by ECOCERT RAW MATERIA

PE203-Kaenda

Kava(Piper methysticum) leaf/root/stem extract, Hydroxypropyl Cyclodextrin, Butylene Glycol, Water Version No:1.0 Safety Data Sheet according to GB/T164483, GB/T17519 Standard requirements

Project number:

Issue Date: 07/15/2022

Part 1: Chemicals and corporate identity

Product name

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	Name of the chemical	Kava(Piper methysticum) leaf/root/stem
		extract, Hydroxypropyl Cyclodextrin,
		Butylene Glycol, Water
	Alias	None
	Other identification methods	None
45	CAS No.	/, 128446-35-5, 107-88-0, /

Manufacturer, importer or supplier

Corporate name	Zley Holdings (Suzhou) Co., Ltd.
	10th Floor, Building 2, Yushan Square,
Corporate address	High-tech Zone, Suzhou City, Jiangsu Province
	Zip code: 215000
Tel:	+86 512-87775990/18626205929
Fax:	0512-87775990
Website	http://www.zleyholdings.com
E-mail	info@zleyholdings.com

Emergency telephone

Emergency telephone	+86 4000928866
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Part 2: Hazard overview

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Classification of substances and mixtures Emergency overview. Solid Non-combustible.

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Irritant to eyes.

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May cause respiratory irritation. Irritant to skin

Hazard category	Skin corrosion/irritation category 2, severe eye damage/eye irritation category 2A,
t to to t	specific target organ toxicity one time exposure category 3

Label Elements

1 LAN	LIET	GHS pictogram	AT LY		THE	<
1	4	Signal word	Warning	+ 45 ×	4	
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Hazard statement

H315	Cause skin irritation	4	
H319	Cause severe eye irritation		
H335	May cause respiratory irritation		

Precautionary statement: preventive measures

		In case of medical treatment: please take with product container or label
	P102	Keep out of reach of children
4	P103	Please read the label before use
		Can only be used outdoors or in a well-ventilated area

Precautionary statement: incident response

P305+P351+P338	In case of entering into the eyes: rinse cautiously with water for several minutes. If contact lenses are worn and can be removed easily, remove the contact lenses, and continue to rinse.
P312	In case you feel sick, call the detoxication center or call a doctor.
P337+P313	In case eye irritation persists: see a doctor/medical treatment
P307+p352	In case the skin is contaminated: wash with plenty of soap and water

Precautionary statement: safe storage

P405	The depository must be locked.
P403+P233	Store in a well-ventilated place, and keep the container closed.

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Precautionary statement: disposal consideration

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	The dispose of contents/container should be conducted in
P5	accordance with local regulations.

Physical and chemical hazards Solid Non-combustible

Health hazard

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	The substance can cause respiratory tract irritation to some people, and the human body's response to the irritation will cause further lung injury. In case people with respiratory dysfunction, respiratory diseases such as emphysema or chronic tracheitis inhale high concentrations of particles
Inhalation	further loss of function may be caused. In case of previous circulatory of nervous system damage, or in case renal injury has been persistently existed and excessive exposure is caused by treatment or use of the substance, those who may be exposed to greater risks should be screened appropriately.
1287	The substance is not classified as "harmful if swallowed" according to EU directives or other classification systems, which is due to the lack or conclusive animal or human evidence. The ingestion of the substance can stil cause harm to the health of individuals, especially to those with previous
Ingestion	obvious organic damage (such as liver and kidney). Currently, harmful of toxic substances are generally defined on the basis of the dose that causes death but not on the basis of the dose that causes illness (disease and discomfort). Gastrointestinal tract discomfort may cause nausea and vomiting However, the ingestion of trace of the substance in the workplace is no considered dangerous.
Skin contact	Some people's skin contact with this substance can lead to inflammation. The substance can exacerbate the original dermatitis disease. Skin contact is no considered to be able to cause effects harmful to health (classified in accordance with EU directive), but the substance may still cause health damage in case of entering the body through wounds, lesions or abrasions.
	Unhealed wounds, abraded or irritated skin should not be exposed to the substance. The entry into the body through wounds, lesions or abrasions may cause harmful effects of systemic injury. The skin should be examined before using the substance, and the substance can only be used after ensuring that any

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	Eyes	The substance can irritate and damage the eyes of some people.
4		Long term exposure to respiratory irritants may lead to tracheal diseases,
		including expiratory dyspnea and related systemic diseases.
) í	Chronic	Limited evidence suggests that repeated or long-term occupational exposure
	4	may contribute to cumulative health effects in relation to organs or biochemical

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Environmental hazards: please refer to Part 12.

systems.

Other hazardous nature.

Part 3: Component / composition information

Material

CAS number	Concentration or concentration range (mass fraction%)	Component
12 - 12	12-20	Kava(Piper methysticum) leaf/root/stem extract
128446-35-5	5-10	Hydroxypropyl Cyclodextrin
	35-45	Water
107-88-0	45-60	Butylene Glycol

Part 4: First aid measures

First aid

Eye contact	In case the eyes contact with this product: Rinse immediately with running water. Ensure that the eyes are thoroughly cleaned by lifting the upper and lower eyelids from time to time. In case the pain persists or relapses, see medical advice immediately, Contact lenses should only be removed by trained personnel after eye injury
Skin contact	In case of skin contact: Immediately remove all contaminated clothing, including shoes and socks; Rinse skin and hair with running water (use soap if possible); In case of irritation, seek medical advice.

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1 1 4	If smoke or combustion products are inhaled, remove the patient
	from the contaminated area.
	Keep the patient lying flat. Pay attention to keep warm and rest.
	Remove prostheses such as dentures before starting first aid as far
Inhalation	as possible to prevent from blocking the respiratory tract.
	In case of respirator arrest, artificial respiration should be carried
	out. It is better to use the artificial respirator with stop valve or
	bag valve mask or pocket mask, and cardiopulmonary
	resuscitation should be performed if necessary.
	Take the patient to hospital or seek medical service immediately.
	Provide a glass of water immediately.
Ingestion	First aid is usually not required. If there is any doubt, contact the
	Poisons Information Centre or contact a doctor.

Advice on protecting rescuers Special tips for doctors Symptomatic treatment.

Part 5: Fire protection measures

Fire extinguishing agent

There are no restrictions on the type of fire extinguishing agent. Use fire extinguishing media suitable for the surrounding environment.

Special hazard

Fire taboo		No data available.
Matters needing attention a	and protective n	neasures for fire extinction
Fire-fighting measures	hazard charact equipment and	brigade, and inform it of the location and eristics of the accident. Wear respiratory protective gloves only in case of fire. le measures to prevent spillage from entering
NET INET	sewers or water	
Fire/Explosion hazards	Non-combustib There is no ma May release tox	jor fire risk, however, the container may burn.

Part 6: Accidental release measures

Protective measures for operators, protective equipment and emergency disposal procedures: Please refer to Part 8.

Preventive measures to prevent from secondary disasters: Please refer to the

above parts.

ISO C

Environmental protection measures: Please refer to Part 12.

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Internment, removal methods and used disposal materials of leaked chemicals

	Clean up all leakages immediately.
A small amount of	Avoid inhalation of dust and avoid contact with skin and eyes.
leakage	Wear protective clothing, gloves, safety goggles and dust masks,
	Use dry cleaning procedures to avoid the generation of dust.
	Moderate level hazard.
A large amount of	Warning: notify all personnel in the area.
leakage	Report to the emergency departments and inform them of the accident
	location and hazard characteristics. Wear protective clothes.

The recommendations for personal protective equipment are shown in Part 8 of the **SDS.**

Part 7: Operation disposal and storage Matters needing attention for operation disposal

	Prevent all contact, including inhalation.
	Wear protective clothing in case of exposure to the hazard.
Safe operation	Use in a well-ventilated area. Prevent the product from gathering
	in low-lying areas.
	Store in the original container. Keep the container safe and sealed.
	Store in a cool, dry and well ventilated place.
Other information	Store in a lace away from incompatible materials and food
	containers.

Matters needing attention for storage

1 th	Proper container	Polyethylene or polypropylene containers. Check all containers to ensure that the labels are clear and there is no leakage.
	Storage prohibition	No data available.

Part 8: Contact control and individual protection

Control parameters, Occupational contact limits and Compositional data: None. **Emergency restrictions**

Ingredient	Name of the substance	TEEL-1	TEEL-1	TEEL-1
Kava(Piper methysticum) leaf/root/stem extract	None	None	None	None
Hydroxypropyl Cyclodextrin	None	None	None	None
Water	None	None	None	None
Butylene Glycol	None	None	None	None



Engineering control	Use engineering control to eliminate hazards, set up a barrier between workers and hazards. Well-designed engineering control can effectively protect workers, and usually can improve the protection level without being affected by the interaction between workers. The basic types of engineering control include: Reduce risks through process control changing operation activities or process flow mode. Close and/or isolate emission source, so as to physically isolate the target hazard and workers, as well as the ventilation system able to add a "add fresh air" and "get rid of dirty air" strategically in the workplace. In case the design is reasonable, the ventilation system can eliminate or reduce air pollution. The design of the ventilation system must be in accordance with the specific process and the chemicals or contaminants used. Employers may need to use multiple types of control measures to prevent
	employees from overexposure.
Personal protective equipment Eye and face protection	Safety glasses with side frame protection. Chemical goggle. Contact lenses may cause special hazards; soft contact lenses may absor and enrich irritants. Each workplace or work platform should formulate a writter policy document on contact lens wear or use restrictions
kin protection	Please refer to hand protection: below.
Hand/foot protection	Choose gloves tested according to relevant standards (such as European EN 374 US F739, AS/NZS2161.1 or national equivalent standards). In case of long-term contact or repeated contact, it is recommended to use gloves with IP grade of 5 or higher (the penetration time should be greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalen standards). If it is expected to contact for only a short time, it is recommended to use gloves with IP grade of 3 or higher (penetration time should be greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalen standards). The contaminated gloves should be replaced. Experience has shown that the following polymers as glove materials are suitable for the protection of undissolved, dry and abrasive free solids. Chloroprene rubber Nitrile rubber Butyl rubber Fluororubber Polyvinyl chloride

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Body protection	Please refer to other protection: below.	1	125	V
	Working clothes PVC (polyvinyl chloride) apron Protective cream Skin cleaning cream			1.2
Thermal hazard	None	4	4	

Respiratory system protection

(AS/NZS year 1716 and 1715, ANSI Z88 EN 143:000 and 149:001, or equivalent to the state),

Respirators may be necessary to be used when engineering and management controls cannot effectively prevent exposure.

The use of respiratory protection should depend on professional advice and judgment, including the consideration of toxicological information, exposure measured data, frequency, and the possibility of worker exposure, so as to ensure that users are not subjected to high heat loads that may lead to heat stress or thermal fatigue as a result of personal protective equipment (a full filter with power assist and positive pressure can be selected).

Published occupational contact (exposure) limits, which may be mandatory by the government or recommended by the seller, will help to determine whether the selected respiratory protective equipment is effective enough.

When the part properly selected and as part of a complete respiratory protection measure system, certified respirators can effectively protect workers from inhalation of particulate matter.

When there is a considerable amount of dust in the air, use an approved positive pressure breathing mask.

Try to avoid conditions producing dust.

Part 9: Physicochemical properties

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Basic physicochemical properties

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Inspection Items	Technical Index Yellow liquid	
Appearance		
Odor	Characteristic	
Kawain (ppm)	1000-2000	
Ethanol	Not detected	
Pb (mg/kg)	< 10	
Hg (mg/kg)	<1	
As (mg/kg)	<2	
Cd (mg/kg)	<5	
Aerobic bacterial count (CFU/ml)	< 1000	
Molds and yeast count (CFU/ml)	< 100	
Pseudomonas aeruginosa/ml	Not detected	
Staphylococcus aureus/ml	Not detected	
Thermotolerant coliform bacteria/ml	Not detected	

Part 10: Stability and reactivity

Please refer to part 7
Existence of incompatible substances.
The substance is considered to be stable.
Polymerization without the occurrence of
hazards.
Please refer to part 7
Please refer to part 7
Please refer to part 7
Please refer to part 5

Part 11: Toxicological information

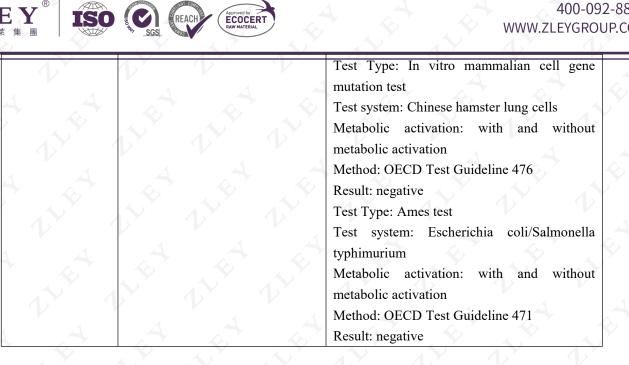
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	Acute Toxicity	Irritation
Butylene Glycol	LD50 Oral rat(male): 22,800 mg / kg LD50 Dermal - Rabbit -> 20,000 mg/kg	Skin Irritation Rabbit Result:Mild skin irritation-4h Serious eye damage/eye irritation Rabbit Result: Irritation to eyes, reversing within 7 days - 18 h Respiratory or skin sensitization: No data available Germ cell mutagenicity No data available

Kava(Piper methysticum)	Acute Toxicity	Irritation
leaf/root/stem extract	Not data available	Not data available

	A PR	Acute Toxicity	Irritation
			Skin Irritation
4	A		No data available
	S.		Serious eye damage/eye irritation
Water		LD50 Oral rat - > 90,000 mg / kg	No data available
		LD50 Ofai fat - > 90,000 filg / kg	Respiratory or skin sensitization:
	4		No data available
			Germ cell mutagenicity
			No data available

L'E L'	Acute Toxicity	Irritation
Hydroxypropyl Cyclodextrin	LD50 Oral - Rat(male and female) - > 2,243mg/kg LC50 Inhalation - Rat(male and female)-4h- > 2.95mg/l- dust/mist LD50 Dermal - Rat - > 2,000 mg/kg	Skin Irritation Skin - Rabbit Result: No skin irritation - 72 h Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation Respiratory or skin sensitization: Maximization Test - Guinea pig Result: negative Germ cell mutagenicity



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Part 12: Ecological information

Ecotoxicity

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Butylene Glycol

	Destination	Test duration (hours)	Туре	Value	Source
	LC50	96	Orange-red killifish	> 100 mg/l	OECD Test Guideline 203
^	EC50	48	Water flea	>1000 mg/l	OECD Test Guideline 202
	ErC50	72	Green algae	> 1070 mg/l	OECD Test Guideline 201

Kava(Piper methysticum) leaf/root/stem extract No data available

Water

No data available

Hydroxypropyl Cyclodextrin

пушохургоруг	Cyclodextilli			
Destination	Test duration (hours)	Туре	Value	Source
LC50	96	Zebra fish	> 1,131 mg/l	External MSDS
EC50	48	Water flea	> 1084 mg/l	OECD Test Guideline 202
ErC50	72	Pseudokirchneriell a subcapitata	> 1182 mg/l	OECD Test Guideline 201
EC50	30 min	Activated sludge	>100 mg/l	External MSDS

It is prohibited to be discharged into sewers or water bodies.

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Persistence and degradability

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Component	Biodegradability
Butylene Glycol	aerobic - Exposure time 29 d Result: 81 % - Readily biodegradable. (OECD Test Guideline 301B)
Kava(Piper methysticum) leaf/root/stem extract	No data available
Water	No data available
	Aerobic - Exposure time 34 d
Hydroxypropyl Cyclodextrin	Result: < 10 % - Not inherently biodegradable.
	(OECD Test Guideline 301B)

Potential bioaccumulation

Component	Bioaccumulation
Butylene Glycol	No data available
Kava(Piper methysticum) leaf/root/stem extract	No data available
Water	No data available
Hydroxypropyl Cyclodextrin	No bioaccumulation is to be expected (log Pow <= 4)

Mobility in soil

Component	Mobility
Butylene Glycol	No data available
Kava(Piper methysticum) leaf/root/stem extract	No data available
Water	No data available
Hydroxypropyl Cyclodextrin	No data available

Other adverse effects: No data available

Part 13: Disposal considerations

Disposal considerations

AA	Recycle as far as possible, or consult manufacturer about the	
	relevant recyclable methods.	
Waste chemicals:	Consult local waste management department about relevant disposal	
4 .1	considerations methods.	
	Bury the residues in the approved landfill.	



_		If possible, recycle the containers,	or dispose	wastes in th	ie
		approved landfill.			
	Contaminated packaging:	Please refer to the above parts.		1 H	
	Transportation precautions:	Please refer to the above parts.	A	A	

Part 14: Transport information

Packaging mark

Marine pollutants None	
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Land transport (UN): Not regulated as dangerous goods for transportation.

Air transport (ICAO-IATA /DG, 61th edition): Not regulated as dangerous goods for transportation.

Maritime transport (IMDG-Code / GGVSee, 41-42): Not regulated as dangerous goods for transportation.

Conduct bulk transportation according to Appendix 1 and IBC code of MARPOL: N/A.

Precautions for transportation: None. **Packing method:** Please refer to Part 7.

Part 15: Regulatory information

OSHA: Process Safety Management: Material is not listed in appendix A of 29 CFR 1910.119 as highly hazardous chemical.

INCI	Chemical names	CAS No.	EC No.
Butylene Glycol	1.3-Butanediol	107-88-0	203-529-7
European Inventory	European Inventory of Existing Commercial Substances (EINECS)		
United States Toxic Substances Control Act (TSCA) Inventory			Listed
Inventory of Existing Chemical Substances in China (China IECSC)			Listed

Safety, health and environmental regulations specific for the product in question

INCI	Chemical names	CAS No.	EC No.
Piper methysticum leaf/root/stem extract	Kava		
European Inventory of Existing Commercial Substances (EINECS)			Not Listed
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed
Inventory of Existing Chemical Substances in China (China IECSC)			Not Listed

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INCI	Chemical names	CAS No.	EC No.
Water	Aqua	7732-18-5	231-791-2
European Inventory of Existing Commercial Substances (EINECS)			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Listed
Inventory of Existing Chemical Substances in China (China IECSC)			Listed

INCI	Chemical names	CAS No.	EC No.
Hydroxypropyl Cyclodextrin	Hydroxypropyl-ß-cyclodextrin	128446-35-5	420-920-1
European Inventory of Existing Commercial Substances (EINECS)			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Listed
Inventory of Existing Chemical Substances in China (China IECSC)			Listed

Part 16: Other Information

Other information

(material) safety data sheet (SDS) is used as the communication tool of hazardous information, which should be used to assist in risk assessment. Many factors can be used to determine whether a hazard in the workplace or in other locations should be reported as dangerous. Risk can be determined by reference to exposure. The scale of use, frequency of use and existing.

Abbreviations and acronyms

PC-TWA: Permissible Concentration-Time Weighted Average refers to the average permissible exposure concentration of 8-hour working days and 40-hour working weeks regulated with the time as the weight.

PC-STEL: Permissible Concentration Short Term Exposure Limit refers to the concentration allowed to be exposed for a short time (15 min) under the premise of complying with PC-TWA.

IARC: International Agency for Research on Cancer.

ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limi.t

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Heath Concentrations.

OSF: Odor Safety Factor.

NOAEL: No Observed Adverse Effect Level.

LOAEL: Lowest Observed Adverse Effect Level.

TLV: Threshold Limit Value

LOD: Limit of Detection.

OTV: Odour Threshold Value.