

# **MATERIAL SAFETY DATA SHEET**

Revision Date : 2012-12-1

Product name:

# 1. IDENTIFICATION OF THE SUBSTANCE/TREPARATION AND THE COMPANY/UNDERTAKING

rennin

Supplier:	upplier: KONO CHEM Co., LTD			
	No 11 Daqing Road			
	Xi'an			
		China		
Tel:		+86-29-88	3598270	
	2.COMPO	SITION/INFORMATION ON I	NGREDIENTS	
Components	CAS	ACGIH Exposure Limits:	OSHA Exposure Limits:	
Components	Number	Acom Exposure Limits.	COTTA EXPOSURE EITHIGS.	
rennin	9001-98-3	None	None	
	1			
		3.HAZARDS IDENTIFICATI	ON	
EMERGENCY OVERVIE	<b>W:</b> May cause	skin irritation and/or dermatiti	s	
Principle routes of expo	sure:	Skin		
Inhalation:		May caus	e irritation of respiratory tract	
Ingestion:		May be ha	armful if swallowed	
Skin contact:		May caus	e allergic skin reaction	
Eye contact: Avoid contact with eyes				
		LERGIC SKIN REACTION.		
Statements of Spill of L	eak Label Eli	minate all ignition sources. Al	osorb and/or contain spill with inert materials	
(e.g., sand, vermiculite).	Then place in a	appropriate container. For larç	ge spills, use water spray to disperse vapors,	
flush spill area. Prevent ru	unoff from ente	ring waterways or sewers.		

4. FIRST AID MEASURES

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General advice:	In the case of accident or if you fell unwell, seek medica
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advice immediately (show the label where possible).

Move to fresh air, call a physician immediately.

Inhalation: Rinse immediately with plenty of water and seek medical

advice

Do not induce vomiting without medical advice.

**Skin contact:** In the case of contact with eyes, rinse immediately with

**Ingestion:** plenty of water and seek medical advice.

Eye contact: No information available

Protection of first - aiders:

Medical conditions aggravated by exposure: None known

### **5.FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use dry chemical, CO2, water spray or "alcohol" foam

**Specific hazards:** Burning produces irritant fumes.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

Flash point: and full protective gear

Autoignition temperature: Not determined NFPA rating Not determined

NFPA Health: 1

NFPA Flammability: 1

NFPA Reactivity: 0

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Prevent product from entering drains.

Methods for cleaning up: Sweep up and shovel into suitable containers for

disposal

## 7. HANDLING AND STORAGE

Storage:

Room temperature

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Handling: Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment.

Incompatible products: Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

Skin and body protection: Usual safety precautions while handling the product will

provide adequate protection against this potential effect.

Safety glasses with side-shields

**Eye protection:** PVC or other plastic material gloves

Hand protection: Handle in accordance with good industrial hygiene and

**Hygiene measures:** safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/range:No Data available at this time.Boiling point/range:No Data available at this time.

Density:No data availableVapor pressure:No data availableEvaporation rate:No data availableVapor density:No data availableSolubility (in water):No data availableFlash point:Not determinedAutoignition temperature:Not determined

## 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours

such as carbon oxides.

Materials to avoid: Strong oxidising agents.

Conditions to avoid: Exposure to air or moisture over prolonged periods.

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## 11. TOXICOLOGICAL INFORMATION

# **Product information**

**Acute toxicity** 

Components	RTECS Number:	Selected LD50s and LC50s
rennin	Not Available	Not Determined

Chronic toxicity: Chronic exposure may cause nausea and vomiting,

higher exposure causes unconsciousness.

**Local effects:** Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness)

and moderate edema (raised skin), nausea, vomiting,

headache.

Primary irritation:

Carcingenic effects:

No data is available on the product itself.

No data is available on the product itself.

No data is available on the product itself.

Reproductive toxicity:

No data is available on the product itself.

# 12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components	U.S. DOT -Appendix B -	U.S. DOT -Appendix B -	United Kingdom – The red
	Marine Pollutants	Severe Marine Pollutants	List:
rennin	Not Listed	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization	Ecotoxicity - Fish Species
		(WHO) - Drinking Water	Data
rennin	Not Listed	Not Listed	Not Listed

Components	Ecotoxicity	-	Freshwater	<b>Ecotoxicity</b>	_	Microtox	<b>Ecotoxicity</b>	- '	Water	Flea	
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	Algae Data	Data	Data
rennin	Not Listed	Not Listed	Not Listed

Components	EPA – ATSDR Priority List	EPA - HPV Challenge	California - Priority Toxic
		<b>Program Chemical List</b>	Pollutants
rennin	Not Listed	Not Listed	Not Listed

### 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with

appropriate Federal, State and local regulations. This product, if unaltered by use, may be disposed of treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be

hazardous.

**Contaminated packaging:**Do not re-use empty containers.

## 14. TRANSPORT INFFORMATION

UN/ld No: Not regulated

DOT

Proper shipping name: Not Regulated

TGD(Canada)

WHMIS hazard class: Non - controlled

IMDG/IMO

IMDG – Hazard Classifications Not Applicable

Components	U.S. DOT –Appendix A Table 1 – Reportable Quantities
rennin	Not Listed

Components	U.S. DOT –Appendix B – Marine Pollutants	U.S. DOT -Appendix B - Severe Marine
		Pollutants
rennin	Not Listed	Not Listed



### IMO - labels:

15. REGULATORY INFOTMATION	
15. REGULATORT INFOTMATION	

### International Inventories

Components	Inventory – United States TSCA – Sect.8(b)	Canada DSL Inventory List -
rennin	Not Listed	Not Listed

### **U.S. regulations:**

Components	California	Massachusetts	New Jersey Right to	Pennsylvania
	proposition 65 -	Right to Know List:	Know List:	Right to Know
				List:
rennin	NA	Not Listed	Not listed	Not listed

Components	Florida	substance	Rhode Island Right	Illinois - Toxic Air	Connecticut -
	List:		to Know List:	Contaminants	Hazardous Air
rennin	Not Listed		Not Listed	Not listed	Not listed

Components	SSARA	313	CERCLA/SARA	-	NTP:	IARC:
	Emission		Section	302		
	reporting/Toxic		Extremely Haz			
	Release	of				
	Chemicals					
rennin			Not Listed		Not listed	Not listed

### **16. OTHER INFORMATION**

Prepared by: Health & Safety

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Web: www.konochemical.com

Email:sales2@konochemical.com

## End of safety data sheet