Section 1 - Chemical Product and Company Identification

IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifiers

Product name : Magnesium Ascorbate

Product Code : MASNL15

Details of the supplier of the safety data sheet

Mailing Address : Jiangsu Khonor Chemicals Co., Limited, Rm 1902 Easey Comm Bldg, 2

53-261, Hennessy RD Wanchai HK

Phone: +86 19851820538

Email: carlos@khonorchem.com Website: www.khonorchem.com

Section 2 - Composition / Information on Ingredients				
Ingredient Name	CAS Number	% wt		
Magnesium Ascorbate	15431-40-0	100		
Molecular Weight	374.54 g/mol			
Molecular Formula	C ₁₂ H ₁₄ MgO ₁₂			

Section 3 - Hazards Identification				
INHALATION	:	May cause respiratory irritation		
INGESTION	:	May cause gastrointestinal irrita	ation	
SKIN CONTACT	:	May cause skin irritation		
EYE CONTACT	:	May cause eye irritation		
CHRONIC EXPOSURE	:	No known significant effects or	critical hazards	
PRECAUTIONARY STATEMENTS	:	P261: Avoid breathing dust/fume/gas/mist/vapors/spray.		
		P262: Do not get in eyes, on skir	•	
		P281: Use personal protective e	• •	
		P302+P352: IF ON SKIN: Wash v		
		P303+P361+P353: IF ON SKIN (c		mmediately all
		contaminated clothing. Rinse sk		
		P304+P340: IF INHALED: Remov		eep at rest in a
		position comfortable for breath	-	
		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+313: If eye irritation persi	sts get medical advice/atte	ention.
			Health	2
			Flammability	0
			Physical Hazard	0
			Personal protection	E
	NFPA SCALE (0-4) HMIS RATINGS			(0-4)

Section 4 - First Aid Measures		
General advice	:	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	:	Remove the person from exposure.
		Transfer promptly to a medical facility.
In case of skin contact	:	Remove contaminated clothing and wash contaminated skin with soap and water.
In case of eye contact	:	Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses, if worn, while rinsing.
If swallowed	:	Never give anything by mouth to an unconscious person. Rinse mouth with
		water. Consult a physician.

Section 5 - Fire-Fighting Measures			
Suitable extinguishing media	: Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.		
Special protective equipment for fire-fighters	: Fire fighters should use self-contained breathing equipment and protective clothing like gloves made of rubber, safety goggles foe protecting the eyes etc.		

Section 6 - Accidental Release Measures			
SPILL CONTROL & RECOVERY	:	Wear appropriate personal protective equipment as specified in Section 8. Clean up spills in a manner that does not disperse dust into the air. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container	
DISPOSAL	•	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.	

Section 7 - Handling and Storage			
HANDLING	•	Avoid contact with eyes. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.	
STORAGE	•	Store in accordance with local regulations. Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use.	
Storage class (TRGS 510)	:	13: Non Combustible Solids	

Section 8 - Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection

Improper use of respirators is dangerous. Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams.

Hand protection

Washing of hands with sanitizer is necessary to get rid of contamination.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin and body protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de). **Hygiene measures**

All protective clothing (suits, gloves, footwear, headgear) should be clean, available each day, and put on before work.

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm **Break through time:** 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following **standards:** DIN EN 143, DIN 14387 and other accompanying standards relating to

the used respiratory protection system. Control of environmental exposure Do not let product enter drains.

Section 9 - Physical and Chemical Properties				
Appearance Form		-		
Form	:	Powder		
Color	:	Off-white to yellowish		
pH (of a 2% w/v solution)	:	2.5 – 4.0		
Melting point	:	Not available.		
Boiling point	:	Not available.		
Flash point	:	Not available.		
Ignition Temperature	:	Not available.		
Lower explosion limit	:	Not available.		
Upper explosion limit	:	Not available.		
Water solubility	:	Soluble.		
Relative density	:	1.88 at 19.7 °C (67.5 °F) - OECD Test Guideline 109		
		OECD Test Guideline 105 -		
Water solubility 642.6 g/l at 20 °C (68 °F)	:			
		completely soluble		
		n-octanol/water		
Partition coefficient:		log Pow: < -4.2 at 22 °C (72 °F) - Bioaccumulation		
		is not		
		expected.		
		temperature		
Decomposition				
		232 °C (450 °F)		
Surface tension		74 mN/m at 20.3 °C (68.5 °F) - OECD Test		
Surface tension		Guideline 115		

Section 10 - Stability and Reactivity

Chemical stability

Stable under normal temperature and pressure.

Conditions to avoid

Use of explosive electrical equipment and fittings of Magnesium wherever used are to be avoided.

Materials to avoid

Sources of ignition, such as smoking and open flames, are prohibited where Magnesium is used, handled, or stored in a manner that could create a potential fire or explosion hazard.

Hazardous decomposition products-

Not Known.

Section 11 - Toxicological Information			
Acute toxicity	No data available.		
Skin corrosion/irritation	Can irritate the skin and eyes when in contact.		
Serious eye damage/eye irritation	No data available.		
Respiratory or skin sensitization	Magnesium can irritate the eye, throat and lungs causing tightness in		
	the chest and/or difficulty in breathing.		
Germ cell mutagenicity	No data available.		
Carcinogenicity			
Magnesium has not been tested for its ability	to cause cancer in humans and animals according to the information		
presently available to the New Jersey Departmer	t of Health.		
Reproductive toxicity	Magnesium has not been tested for its ability to affect reproduction.		
Specific target organ toxicity - single exposure	Contact can irritate the skin and eyes.		
Specific target organ toxicity - repeated	Exposure to Magnesium may cause "metal fume fever." This is a flu-		
exposure	like illness with symptoms of metallic taste in the mouth, headache,		
	fever and chills, aches, chest tightness and cough. The symptoms may		
	be delayed for several hours after exposure and usually last for a day		
	or two.		
Aspiration hazard	No data available.		
Potential health effects			
Inhalation	Inhaling Magnesium can irritate the nose, throat and lungs causing		
	tightness in the chest and/or difficulty in breathing.		
Ingestion	Ingesting magnesium leads to accumulation of magnesium in the		
	body. This will cause an upset stomach.		
Skin	Contact can irritate the skin and eyes.		
Eyes	Contact can irritate the skin and eyes.		

Exposure to Magnesium may cause "metal fume fever." This is a flu-like illness with symptoms of metallic taste in the mouth, headache, fever and chills, aches, chest tightness and cough. The symptoms may be delayed for several hours after exposure and usually last for a day or two.

Information on toxicological effects

LD50 Oral - Rat - 11,900 mg/kg

Acute toxicity

Remarks: (calculated on the free acid)(RTECS)

Inhalation:

Dermal:

No data available

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Ascorbic acid

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: ascorbic acid

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: Negative (OECD Test Guideline 429)

Section 12 - Ecological Information

Toxicity

Toxicity to fish

Toxicity to daphnia and other aquatic invertebrates.

Persistence and degradability

Bioaccumulative potential

No Information found.

No data available.

No data available.

Mobility in soilNo data available.PBT and vPvB assessmentNo data available.Other adverse effectsNo data available.

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,020

mg/I - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia Daphnia magna (Water flea) - 74 mg/l - 48 h

and other aquatic (OECD Test Guideline 202)

invertebrates

Semi-static test EC50 - Pseudokirchneriella subcapitata - > 74 mg/l - 72

Toxicity to algae static test ErC50 - h

(OECD Test Guideline 201)

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: > 99 % - Readily biodegradable. (OECD Test Guideline 301A).

Section 13 - Disposal Considerations

Product

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

D O T Classification : Not a DOT controlled material

Air transport Goods : Nonhazardous/non dangerous as per IATA DGR.

Special Provision for : Not applicable

Transport

IATA Specification Non-dangerous, non-hazardous

DOT (Pictograms)

AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND

NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION



Section 15 - Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Ferric pyrophosphate

Other Regulations: Not available.

Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.): Health Hazard: 2

Fire Hazard: 0 Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0. Reactivity: 0 Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified

respirator or equivalent. Splash goggles.

Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. Jiangsu Khonor

Chemicals Co., Limited believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer as sumes all responsibility of using and handling the product in accordance with federal,

state, and local regulations.

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