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RM.3-93,TENGFEI BUILDING,NO.88 JIANGMIAO RD., RESEARCH AND INNOVATION PARK, NANJING ZONE,(JIANGSU) PILOT FREE TRADE ZONE ,CHINA.

Extended Safety Data Sheet According to Regulation (EC) No 1907/2006, Annex II, Amended by COMMISSION REGULATION (EU) 2020/878, According to REGULATION (EC) No 1272/2008

Calcium formate

Version 2.0

Issue date: 31-05-2012 Revision date: 31-05-2022

CIRS eSDS Record Number: CSSS-TCO-010-111571

1 Identification of the substance and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Calcium formate
Additional identification: Not available

Identification of the product: CAS#544-17-2 , EC# 208-863-7

Index Number: N

REACH registration No.: 01-2119486476-24-0004

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Used as additives in Feed and concreting, lubricants in Cement.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited

Supplier(Manufacturer): Shandong Acid Technology Co., Ltd

Address: Shiheng, Feicheng City, Shandong Province P. R. China

 Contact person(E-mail):
 Kefeng Hu

 Telephone:
 +86-538-3693088

 Fax:
 +86-538-3691266

1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours? YES NO X

2 Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	No.	
Hazard classes/Hazard categories	Hazard statement	
Eye Dam. 1	H318	
or full text of H- phrases: see section 2.2.	*	
67/548/EEC		
Hazards characteristics	R-Phrases	
Xi	R41	

For full text of R- phrases: see section 16.



(回期)

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2.1.2 The most important adverse effects

2.1.2.1 The most important adverse physicochemical effects:

Not applicable

2.1.2.2 The most important adverse human health effects:

Causes serious eye damage

2.1.2.3 The most important adverse environmental effects:

Not applicable

2.2 label elements

Hazard Pictograms:



Signal Word(S):

Hazard Statement:

Danger

Precautionary Statement:

H318: Causes serious eye damage.

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN E YES: Rinse cautio usly with water for selveral minutes Remove

contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards

Not available (PBT,vPvB, Substance is an endocrine disruptor etc.)

3 Composition/information on ingredients

Substance/Mixture:

substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Calcium formate	01-2119486476-24-0004	544-17-2	208-863-7	Calcium Formate>98% Water < 2%

4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move to fresh air. Rinse mouth with water. If imitation persists get medical advice/attention.

4.1.2 In case of skin contact:

Not required, but wash exposed skin with soap and water for hygienic reasons.

4.1.3 In case of eyes contact:

Rinse cautiously with tempered water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

4.1.4 In case of ingestion:

Rinse mouth with water and drink water. If large amount been ingested get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Not available



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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: All types of extinguishing media are suitable; Unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

Use fire extinguishing methods suitable to surrounding conditions.

5.3 Advice for fire-fighters:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Wear tightly sealed goggles, protective gloves and if dusty conditions dust filter mask (P2).

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 Environmental Precautions:

Do not allow to enter sewers/surface or ground water.

6.3 Methods for Containment and Cleaning up:

Cover to prevent dust formation.

Pick up mechanically.

Clean area with water.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information:

Not available

7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Wear tightly sealed goggles and protective gloves (chloroprene rubber, nitrile rubber).

7.1.2 Advice on general occupational hygiene:

Do not breathe vapor. Do not get in eyes, on skin, on clothing.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

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8 Exposure control/personal protection

8.1 Control parameters:

Not applicable.

8.1.1 Occupational exposure limits:

8.1.2 Additional exposure limits under the conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values:

8.2 Exposure controls

8.2.1Appropriate engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN168.

Hand protection

Wear appropriate protective gloves to prevent skin exposure.

Body protection

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions

warrant a respirator's use.

Thermal hazards

Not applicable 8.2.3 Environmental exposure controls:

Not applicable

Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Colour: Odour:

Odour threshold:

Odourless white crystalline powder

pH:

Melting point/range (°C):

>300

Boiling point/range (°C):

>300 Not applicable

Flash point (°C):

Not applicable

Evaporation rate: Flammability (solid, gas):

Not flammable

Ignition temperature (°C):

292°C

Upper/lower flammability/explosive limits:

Not applicable Not determined

Vapour pressure (25°C) :

Not applicable

Vapour density: Relative Density (25°C):

2.00

Bulk density (kg/m3):

Not applicable

172 mg/L

Water solubility (g/l) at 20°C:

<-2.3 @pH7/23°C

n-Octanol/Water (log Po/w): Auto-ignition temperature:

292°C回1013hPa

Decomposition temperature: Viscosity, dynamic (mPa s): Not applicable Not applicable

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Non explosive

Explosive properties: Oxidising properties:

No

9.2. Other information:

Fat solubility(solvent- oil to be specified) etc:

Not applicable 72mN/m @20°C

Surface tension:

3.8@20°C

Oxidation-reduction Potential:

Dissociation constant in water(pKa):

Not applicable

10 Stability and reactivity

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

The substance is stable under normal pressure and temperature.

10.3 Possibility of hazardous reactions:

No hazardous reactions known under intended use.

10.4 Conditions to avoid:

Incompatible materials, excess heat.

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide.

11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution

Non-human toxikological data:

Not available

Method:

Not available

Dosis:

Not available

Routes of administration:

Not available

Results:

calcium formate was rapidly absorbed, metabolised and eliminated after oral ingestion by

adult human females, and that formate does not have an accumulation potential

Absorption:

Absorption rate (%): 1

Distribution:

no bioaccumulation

Metabolism:

Rapidly metabolised

Excretion:

Rapidly eliminated

11.2 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat):

2000 mg/kg bw

LD50(Dermal rat):

2000 mg/kg bw

LC50(Inhalation, Rat):

0.64 mg/m³ air

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Skin corrosion/Irritation: Not irritating Serious eye damage/irritation:

Irritating Respiratory or skin sensitization: Not sensitising

Germ cell mutagenicity:

negative Carcinogenicity: No classification reproductive toxicity: No classification STOT- single exposure: Not available STOT-repeated exposure: Not available Aspiration hazard: Not available

12 Ecological information

Toxicity:

Acute toxicity Tim		Time	Species	Method	Method Evaluation	
LC50	>=1000 mg/L	96h	Fish	OECD 203	N/A	N/A
EC10	100mg/L	21d	Daphnia	OECD 202	N/A	N/A
EC50	500 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: No data available Bioaccumulative potential: No data available. Mobility in soil: Not available.

Results of PBT&vPvB assessment: The substance is not a PBT or vPvB substance

Other adverse effects: Not available.

13 Disposal considerations

13.1 Waste treatment methods

Waste of pure substance is classified as hazardous waste. Recommended treatment method is incineration.

13.2 Product / Packaging disposal:

If empt y container r etains product residu es, all la bel p recautions mu st be observe d. Return for reuse or d according to national or local regulations.

14 Transport information NotRegulated by MDG/MO.					
	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)		
UN-Number:	Not regulated	Not regulated	Not regulated		
UN Proper shipping name:	Not regulated	Not regulated	Not regulated		
Transport hazard Class:	Not regulated	Not regulated	Not regulated		
Packaging group:	Not regulated	Not regulated	Not regulated		
Environmental hazards:	Not regulated	Not regulated	Not regulated		
Special precautions for user:	Not regulated	Not regulated	Not regulated		
Transport in bulk according to	Not regulated	Not regulated	Not regulated		



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15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For

use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES NO X

16 Other information

16.1 Indication of changes V ersion 1.1 Am ended by EU No 453/2010

16.2 Relevant R- phrases (number and full text):

R41 - risk of serious damage to eyes

16.3 Training instructions:

Not applicable.

16.4 Further information:

This information is based up on the present state of our kno wledge. This SDS has been compilled and is sole ly intended for this product.

16.5 Notice to reader:

Employers should use this information only as a supplement to other information gath ered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safe ty of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.