

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/01/2015 Revision date: 06/20/2023 Supersedes: 06/11/2018

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Ferrous Gluconate
CAS-No.	: 299-29-6
Formula	: $Fe(C_6H_{11}O_7)_2 \cdot 2H_2O_7$
BIG No	: 31806
1.2. Recommended use and restrictions of	
Use of the substance/mixture	: Nutrient; Dietary Supplement; Pharmaceuticals
1.3. Supplier	
Manufacturer Jost Chemical Co. 8150 Lackland Rd. Saint Louis, Missouri 63114 T 314-428-4300 - F 314-428-4366 www.jostchemical.com Contact:Dave Bohnenstiehl	
1.4. Emergency telephone number	
Emergency number	 For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night United States and Canada: 1-800-424-9300 / +1 703-527-3887 Global: +1 703-741-5970
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	xture
GHS-US classification	
Not classified	
2.2. GHS Label elements, including preca	utionary statements
GHS US labelling	
No labelling applicable	
2.3. Other hazards which do not result in	classification
No additional information available	
2.4. Unknown acute toxicity (GHS US) Not applicable	
SECTION 3: Composition/information	i on ingredients
3.1. Substances	
Substance type	: Mono-constituent
Full text of hazard classes and H-statements : see	e section 16
3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air.
First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth with water. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre (www.big.be/antigif.html). Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and ef	fects (acute and delayed)
Potential adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg).
Symptoms/effects after inhalation	: Irritation of the respiratory tract.
Symptoms/effects after skin contact	: Slight irritation.
Symptoms/effects after eye contact	: mild eye irritation.
Symptoms/effects after ingestion	: SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS: Gastrointestinal complaints. Nausea. Vomiting. Abdominal pain. Diarrhoea. FOLLOWING SYMPTOMS MAY APPEAR LATER: Change in the haemogramme/blood composition. Blood in vomit. Blue/grey

discolouration of the skin. Feeling of weakness. Dizziness. Low arterial pressure. Cramps/uncontrolled muscular contractions. Enlargement/affection of the liver.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam. Water spray. Dry powder. Foam.		
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.		
5.2. Specific hazards arising from the che	emical		
Fire hazard	: No data available on direct fire hazard. No data available on indirect fire hazard.		
Explosion hazard	: No data available on direct explosion hazard. No data available on indirect explosion hazard.		
Hazardous decomposition products in case of fire	: Upon combustion: CO and CO2 are formed.		
5.3. Special protective equipment and pro	ecautions for fire-fighters		
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.		
Firefighting instructions	: Do not dispose of fire-fighting water in the environment. Cool down the containers exposed to heat with a water spray.		
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECTION 6: Accidental release meas	ures		
6.1. Personal precautions, protective equ	ipment and emergency procedures		
6.1.1. For non-emergency personnel			
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.		
Emergency procedures	: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment	nt and cleaning up		
For containment	: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.		

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Methods for cleaning up	: Mechanically recover the product. Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing.
Hygiene measures	: Reduce/avoid exposure and/or contact. Keep container tightly closed. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	Iding any incompatibilities
Technical measures	: Does not require any specific or particular technical measures.
Storage conditions	: Store in a clean, dry warehouse in the original unopened containers. Store in a well-ventilated place. Keep cool.
Incompatible materials	: Strong oxidisers.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents.
Storage area	: Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: cardboard. plastics.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ferrous Gluconate (299-29-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	1 mg/m ³

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Dust production: dust mask with filter type P2. Gloves. Safety glasses.

Materials for protective clothing:

GIVE GOOD RESISTANCE: rubber

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles. Safety glasses

Skin and body protection:

Protective clothing

Respiratory protection:

Dust formation: dust mask

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Solid Appearance : Brown, tan or gray to greenish yellow powder, coarse granular. Colour : Colourless Odour : Sweet odour Odour threshold : No data available : No data available pН : No data available Melting point Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable Relative evaporation rate (butylacetate=1) : No data available : Non flammable. Flammability (solid, gas) : No data available Vapour pressure : Not applicable Relative vapour density at 20 °C Relative density : Not applicable : 482.17 a/mol Molecular mass Soluble in water. Soluble in glycerol. Solubility : Water: soluble, Literature Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive limits : Not applicable Explosive properties : No data available Oxidising properties : No data available Other information 9.2. : Acid reaction. Other properties **SECTION 10: Stability and reactivity** 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2.	Chemical stability	
Stable	under normal conditions.	
40.0	Dessibility of benerdays resulting	
10.3.	Possibility of hazardous reactions	
No dan	gerous reactions known under normal conditions of use.	
10.4.	Conditions to avoid	
None u	nder recommended storage and handling conditions (see section 7).	
10.5.	Incompatible materials	
Oxidizi	ng agent.	
10.6.	Hazardous decomposition products	
Under	normal conditions of storage and use, hazardous decomposition products should not be produced.	
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SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified (Lack of data)
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified (Lack of data)
Serious eye damage/irritation	: Not classified (Lack of data)
Respiratory or skin sensitisation	: Not classified (Lack of data)
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified (Lack of data)
STOT-single exposure	: Not classified (Lack of data)
STOT-repeated exposure	: Not classified (Lack of data)
Aspiration hazard	: Not classified
	(Lack of data)
Viscosity, kinematic	: No data available
Likely routes of exposure	: Skin and eyes contact. Inhalation.
Potential adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg).
Symptoms/effects after inhalation	: Irritation of the respiratory tract.
Symptoms/effects after skin contact	: Slight irritation.
Symptoms/effects after eye contact	: mild eye irritation.
Symptoms/effects after ingestion	: SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS: Gastrointestinal complaints. Nausea. Vomiting. Abdominal pain. Diarrhoea. FOLLOWING SYMPTOMS MAY APPEAR LATER: Change in the haemogramme/blood composition. Blood in vomit. Blue/grey discolouration of the skin. Feeling of weakness. Dizziness. Low arterial pressure. Cramps/uncontrolled muscular contractions. Enlargement/affection of the liver.

SECTION 12: Ecological information		
12.1.	Toxicity	
Ecology	- general	: No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.
Ecology	- water	: No data available on ecotoxicity.
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	

No additional information available

SECTION 13: Disposal consideration	1S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Recycle/reuse.

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SECTION 14: Transport information	bn
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Proper Shipping Name (Transportation of Dangerous Goods)	: Not regulated for transport
Transport by sea	
Proper Shipping Name (IMDG)	: Not regulated for transport
Air transport	
Proper Shipping Name (IATA)	: Not regulated for transport
SECTION 15: Regulatory informat	ion
15.1. US Federal regulations	
Ferrous Gluconate (299-29-6)	
Listed on the United States TSCA (Toxic St	ubstances Control Act) inventory
All components of this product are listed, or Substances Control Act (TSCA) inventory	r excluded from listing, on the United States Environmental Protection Agency Toxic
15.2. International regulations	
CANADA	
Ferrous Gluconate (299-29-6)	
Listed on the Canadian DSL (Domestic Sub	ostances List)
EU-Regulations	
Ferrous Gluconate (299-29-6)	none laurester of Evistics Commercial Chemical Cultures)
National regulations	pean Inventory of Existing Commercial Chemical Substances)
Ferrous Gluconate (299-29-6)	
Listed on the AICS (Australian Inventory of	Chemical Substances)
Listed on KECL/KECI (Korean Existing Che	
Listed on INSQ (Mexican National Inventor	
Listed on NZIoC (New Zealand Inventory of Listed on PICCS (Philippines Inventory of C	
15.3. US State regulations	

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	/

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Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.