



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: webcil@wbcil.com

Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

MSDS Name: Ferrous Ascorbate

Product Code : FAS2015

Synonyms : L-(+)-Ascorbic acid iron(II) salt, Vitamin C iron(II) salt

Company Identification:

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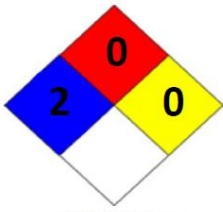
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Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Ferrous Ascorbate	24808 – 52 – 4	90 - 100

Section 3 - Hazards Identification

POTENTIAL ACUTE HEALTH EFFECTS	: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	 <p>NFPA SCALE (0-4)</p> <table border="1"><tbody><tr><td>Health</td><td>2</td></tr><tr><td>Flammability</td><td>0</td></tr><tr><td>Physical Hazard</td><td>0</td></tr><tr><td>Personal protection</td><td>X</td></tr></tbody></table> <p>HMIS RATINGS (0-4)</p>	Health	2	Flammability	0	Physical Hazard	0	Personal protection	X
Health	2									
Flammability	0									
Physical Hazard	0									
Personal protection	X									
POTENTIAL CHRONIC HEALTH EFFECTS	: Slightly hazardous in case of skin contact (irritant), of eyecontact (irritant), of ingestion, of inhalation									
CARCINOGENIC EFFECTS	: No data available.									
MUTAGENIC EFFECTS	: No data available.									
TERATOGENIC EFFECTS	: No data available.									
DEVELOPMENTAL TOXICITY	: No data available.									





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Section 4 - First Aid Measures

INHALATION	:	Move exposed person to fresh air. If not breathing, seek immediate medical attention. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel and seek medical attention.
INGESTION	:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.
SKIN CONTACT	:	Remove contaminated clothing and shoes and immediately flush skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, seek medical attention.
EYE CONTACT	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.

Section 5 - Fire-Fighting Measures

FLAMMABILITY OF THE PRODUCT	:	May be combustible at high temperature.
AUTO IGNITION TEMPERATURE	:	Not available.
FLASH POINTS	:	Not available.
SUITABLE EXTINGUISHING MEDIA	:	Carbon dioxide (CO ₂). Dry chemical. Water spray mist or foam.
HAZARDOUS COMBUSTION PRODUCTS	:	Decomposition products may include oxides of carbon and iron. Carbon-Monoxide, Carbon Dioxide. Iron oxides.
PRODUCTS OF COMBUSTION	:	These products are carbon oxides (CO, CO ₂). Some metallic oxides.
FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES	:	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES	:	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.





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Section 6 - Accidental Release Measures

Small Spill	:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Section 7 - Handling and Storage

PRECAUTIONS	:	Keep away from heat. Keep away from sources of ignition. Do not breathe dust.
STORAGE	:	Keep container tightly closed. Keep container in a well-ventilated area.

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS	:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne Contaminants below the exposure limit.
PERSONAL PROTECTION	:	Safety glasses, Lab Coat, Dust respirator, Be sure to use an approved / certified respirator or equivalent, Gloves
PERSONAL PROTECTION IN CASE OF A LARGE SPILL	:	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
EXPOSURE LIMITS	:	Consult local authorities for acceptable exposure limits.





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Section 9 - Physical and Chemical Properties

APPEARANCE FORM	:	Blackish free flowing powder.
VAPOR PRESSURE	:	1.18E-08mmHg at 25°C
VAPOR DENSITY (AIR =1)	:	No information found.
Molecular/Formula weight (g/mole)	:	406.08
RELATIVE DENSITY	:	about 1.65
MELTING POINT	:	193°C literature
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE	:	415.8°C at 760mmH
FLASH POINT	:	180.4°C
ODOUR	:	Odourless
SOLUBILITY	:	Soluble in water.
pH (2% w/v Solution)	:	4.5 – 7.0

Section 10 - Stability and Reactivity

STABILITY	:	The product is stable at normal conditions.
HAZARDOUS POLYMERIZATION	:	Does not occur
INCOMPATIBILITIES:	:	Not available.
CORROSIVITY	:	Not available.





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Section 11 - Toxicological Information

Routes of Entry	:	Inhalation. Ingestion
Toxicity to Animals	:	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	:	Not Available
Other Toxic Effects on Humans	:	Hazardous in case of skin contact (irritant), of ingestion, of inhalation
Special Remarks on Toxicity to Animals	:	Not Available
Special Remarks on Chronic Effects on Humans	:	Not Available
Special Remarks on other Toxic Effects on Humans	:	Not Available

Section 12 - Ecological Information

ECOTOXICITY	:	Not Available
BOD 5 and COD	:	Not Available
PRODUCTS of BIODEGRADATION	:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
TOXICITY OF THE PRODUCTS OF BIODEGRADATION	:	The Product itself and its products of degradation are not toxic.
SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION.	:	Not Available

Section 13 - Disposal Considerations

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.





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Section 14 - Transport Information

DOT Classification : Not a DOT controlled material
Air transport Goods : Nonhazardous/non dangerous as per IATA DGR.
Special Provision for Transport : Not applicable
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 REGULATION	:	No products were found.
OTHER REGULATION	:	Not available.
WHMIS (Canada)	:	Not controlled under WHMIS (Canada).
DSCL (EEC)	:	This product is not controlled under the EU Regulations.
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. WEST BENGAL CHEMICAL INDUSTRIES 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 assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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Revision No.: 03

