

MATERIAL SAFETY DATA SHEET

(USA)

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

Version: 3

Revision date: 10 August 2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Code: L058
Product Name: Iron Stabilizer L58
Company Identification: Schlumberger Technology Corporation
110 Schlumberger Drive
Sugar Land, Texas 77478, USA
Telephone: 1-281-285-7873
Emergency Telephone Number: USA: +1-281-595-3518 (24hr)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Main physical hazards: No classified physical hazards.
Main health hazards: May cause mechanical irritation to eyes. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Other Information: Agitation may generate some dust. Suspended dust may present a dust explosion hazard.
Precautions: Avoid dust formation.
HMIS classification: Health: 0 Flammability: 1 Physical hazard: 0

Form: Powder

Color: White

Odor: None

Principle routes of exposure:

Eye contact. Skin contact. Respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %- Range
Sodium erythorbate	6381-77-7	60 - 100

4. FIRST AID MEASURES

Eye contact: Rinse with plenty of water. Seek medical attention if irritation occurs.
Skin contact: Rinse with water.
Ingestion: Obtain medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move to fresh air. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Fire hazard: Combustible material. Dust may form explosive mixture in air.

Flash point: Not applicable.
Autoignition temperature: No data available.
Flammability limits in air:
 Lower: No information available.
 Upper: No information available.
Oxidizing properties: None.

Suitable extinguishing media:
Water Fog, Alcohol Foam, CO2, Dry Chemical.

Extinguishing media which must not be used for safety reasons:
None known.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:
When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

Special protective equipment for firefighters:
Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

NFPA rating:
 Health: 0
 Flammability: 1
 Instability: 0
 Special: None

6. ACCIDENTAL RELEASE MEASURES

Main physical hazards: No classified physical hazards.
Other Information: Agitation may generate some dust. Suspended dust may present a dust explosion hazard.
Personal precautions: Wear suitable protective equipment.
Methods for cleaning up: Shovel into suitable container for disposal. After cleaning, flush away traces with water.
Environmental precautions: Prevent further leakage or spillage.

7. HANDLING AND STORAGE

Handling:
 Precautions: Avoid dust formation.
 Safe handling advice: Provide appropriate exhaust ventilation at places where dust is formed.
Technical measures/ storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.
Packaging requirements: Polyethylene bag or drum with polyethylene liner.
Incompatible products: Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: Enclosure of the process. Ensure adequate ventilation. Other suitable methods.
Hygiene measures: Exercise reasonable care and cleanliness.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. If dust or mist is generated use NIOSH approved respirator with dust and mist protection (3M 8210).

Eye protection: Tightly fitting safety goggles.

Hand protection: Rubber or plastic gloves.

Skin and body protection: Clean, body-covering clothing.

Occupational Exposure Limits

Component	ACGIH - TLVs			OSHA - PELs		
	TWA / Ceiling	STEL	ACGIH - Skin	TWA / C	STEL	Final PELs - Skin
Sodium erythorbate	-	-	-	-	-	-

Particles Not Otherwise Regulated/Specified [PNOR or PNOS] (insoluble or poorly soluble):

- OSHA PEL's for Inert or Nuisance Dust are covered by PNOR limits: respirable fraction: 5 mg/m³; total dust 15 mg/m³.
- ACGIH PNOS Recommendations: airborne concentrations should be kept below 3 mg/m³, respirable particulate, and 10 mg/m³, inhalable particles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical characterization: Reducer

Fire hazard: Combustible material. Dust may form explosive mixture in air.

Form: Powder

Color: White

Odor: None

Odor threshold: Not applicable.

pH: 5.0 - 8.0

pH concentration: @ 50 g/l

Boiling point/range: Decomposes 200°C / 392 °F

Flash point: Not applicable.

Flammability limits in air:

Lower: No information available.

Upper: No information available.

Bulk density: No information available.

Melting point/range: No data available.

Decomposition temperature: 200 °C / 392 °F

Solubility:

Water solubility: 153 g/l (@ 25°C)

Fat solubility: Insoluble.

Partition coefficient (n-octanol/water): See also SECTION 12

Relative density: No information available

Vapor pressure: Not applicable.

Vapor density: Not applicable.

Viscosity: Not applicable.

Evaporation rate: Not applicable.

% Volatile (VOC): None.

10. STABILITY AND REACTIVITY

Stability:
Stable at normal conditions.

Conditions to avoid:

None known.

Incompatibility with other substances:

Oxidizers.

Hazardous decomposition products:

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

Hazardous polymerization:

Hazardous polymerization does not occur.

Other Information:

Agitation may generate some dust. Suspended dust may present a dust explosion hazard.

11. TOXICOLOGICAL INFORMATION**PRODUCT TOXICOLOGICAL INFORMATION****Acute Health Hazard****Eye contact:**

May cause mechanical irritation.

Skin contact:

No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion:

Accidental ingestion of small amounts is not expected to cause adverse effects. Swallowing large amounts may be harmful.

Inhalation:

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Sensitization - lung:

Not known to cause allergic reaction.

Sensitization - skin:

Not known to cause allergic reaction.

Chronic Health Hazard**Carcinogenic effects:**

None known.

Mutagenic effects:

None known.

Teratogenic effects:

None known.

Reproductive toxicity:

None known.

Target organ effects:

No information available.

COMPONENT TOXICOLOGICAL INFORMATION

Component	Target Organ Effects	LD50 / LC50
Sodium erythorbate	-	> 5 g/kg (Oral LD50; Rat)

Component	IARC Group 1 or 2:	ACGIH - Carcinogens:	OSHA Listed Carcinogens	NTP:
Sodium erythorbate	-	-	-	-

12. ECOLOGICAL INFORMATION**PRODUCT INFORMATION**

COMPONENT INFORMATION

Sodium erythorbate

Bioaccumulation: Does not bioaccumulate log Pow = <3**Persistence / degradability:** 59 %. (28d; OECD306).**Crustacean toxicity:** 48h LC50= 26 mg/l (Acartia tonsa)**13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products:**

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

Contaminated packaging:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.

EPA RCRA Hazardous Waste Code:

None

14. TRANSPORT INFORMATION**DOT:****CERCLA RQ:** None**Hazard class:** Not regulated.**Proper shipping name:** Not regulated**Label(s):** None required.**IMDG/IMO****Shipping name:** Not regulated.**UN number:** None**ICAO/IATA****Shipping name:** Not regulated.**UN number:** None**TDG (Canada):****Shipping name:** Not regulated.**PIN:** None*Note 1:**For the applicable placard selection refer to the appropriate transport regulations; the selection may vary depending on the cargo size and categories of other hazardous materials in the cargo.***15. REGULATORY INFORMATION****International Chemical Inventories**

USA, Toxic Substances Control This product complies with TSCA requirements.

Act inventory (TSCA):

IMPORTS, USA: No import volume restrictions.

Canada, Domestic Substance This product complies with DSL requirements.

List (DSL):

IMPORTS, Canada: No import volume restrictions.

U.S.A. Regulations

OSHA Hazard Communication Standard:

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

EPA RCRA Hazardous Waste Code:

None

EPA, Sections 311 and 312 - Material Safety Data Sheet Requirements (40 CFR 370):

Immediate (Acute) Health Hazard:	None
Delayed (Chronic) Health Hazard:	None
Fire Hazard:	None
Sudden Release or Pressure Hazard:	None
Reactive Hazard:	None

EPA, Sections 313 - List of Toxic Chemicals (40 CFR 372):

This product contains the following substance(s), which appear(s) on the List of Toxic Chemicals:

Additional Regulatory Information

Sodium erythorbate

EPA, CERCLA Section 102a/103 Hazardous Substances (40 CFR 302.4): None

CERCLA/SARA - Hazardous Substances and their RQs: None

EPA, SARA TITLE III Section 304, Extremely Hazardous Substances (40 CFR 355.40): None

California Proposition 65: None

International Hazard Class

WHMIS Hazard Class:

Non-controlled product.

16. OTHER INFORMATION

Current references:

1. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. *American Conference of Governmental Industrial Hygienists, Cincinnati OH.*
2. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. *World Health Organization, International Agency for Research on Cancer. Geneva, Switzerland.*
3. Annual Report on Carcinogens. National Toxicology Program. *U.S. Department of Health and Human Services, Public Health Service.*
4. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS). *National Institute for Occupational safety and Health. Cincinnati, OH.*
5. LOLI Database.

Explanation of terms:

ACGIH:	American Conference of Governmental Industrial Hygienist
ACGIH-TL:	Threshold Limit Value
DSL:	Domestic Substance List
HMIRC:	Hazardous Materials Information Review Commission
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
NIOSH:	National Institute of Occupational Safety & Health
NIOSH-REL:	Recommended Exposure Limit
OSHA:	Occupational Safety & Health Administration
OSHA-PEL:	Permissible Exposure Limit
TSCA:	Toxic Substance Control Act (Inventory)

Occupational Exposure Limits indicators: TWA - Time Weighted Average; STEL - Short Term Limit; C - Ceiling Limit; units: [mg/m³]

ACGIH Notations:

"Skin" refers to the potential significant contribution to the overall exposure by the cutaneous route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance.

"A" notation indicates carcinogenicity as follows:

ACGIH classification: A1 - Confirmed Human Carcinogen; A2 - Suspected Human Carcinogen; A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; A4 - Not Classifiable as a Human Carcinogen; A5 - Not suspected as a Human Carcinogen.

"SEN" refers to the potential for an agent to product sensitization as confirmed by human and animal data.

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End of the Material Safety Data Sheet