

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 1 of 11

SECTION 1. IDENTIFICATION

Product name : **1433289**
40-21002 SS Sand LIQ Bottle

Material number : **1433289**

Manufacturer or supplier's details

Company name of supplier : Ferro Corporation

Address : 6060 Parkland Blvd. Suite 250
Mayfield Heights OH 44124-4185

Telephone : (216) 875-5600

Emergency telephone number

In-Country Number : (800)424-9300

CHEMTREC Global Number : +(1)-703-527-3887 (Call Collect)

Recommended use of the chemical and restrictions on use

Recommended use : Consult the technical guidelines for the use of this
substance/mixture.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2A

Carcinogenicity : Category 1A

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H319 Causes serious eye irritation.
H350 May cause cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before
use.
P202 Do not handle until all safety
precautions have been read and

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 2 of 11

P264
P280

Response:
P305 + P351 + P338

P308 + P313

P337 + P313

Disposal:
P501

understood.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : water, salt of organic acids/bases, silicatic material, metal oxide/hydroxide

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
diron trioxide	1309-37-1	>= 5 - < 10
quartz	14808-60-7	>= 1 - < 5
mica	12001-26-2	>= 1 - < 5
docusate sodium	577-11-7	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : Consult a physician.

If inhaled : Remove to fresh air.
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water and seek medical advice.

If swallowed : If accidentally swallowed obtain immediate medical attention.

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 3 of 11

Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.
May cause cancer.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Follow safe handling advice and personal protective equipment recommendations.
- Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diiron trioxide	1309-37-1	TWA (Fumes)	10 mg/m3	OSHA Z-1
		TWA (total dust)	15 mg/m3	OSHA Z-1

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 4 of 11

		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
quartz	14808-60-7	TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	OSHA CARC
mica	12001-26-2	TWA (Respirable fraction)	3 mg/m3	ACGIH
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	3 mg/m3	NIOSH REL
		TWA (respirable dust fraction)	3 mg/m3	OSHA P0

Hazardous components without workplace control parameters

Components	CAS-No.
docusate sodium	577-11-7

Engineering measures : Apply technical measures to comply with the occupational exposure limits.
Provide adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Protective measures : Wear suitable protective equipment.
When using do not eat, drink or smoke.

Hygiene measures : Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 5 of 11

Appearance	:	liquid
Colour	:	sand
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Relative vapour density	:	No data available
Density	:	1.35 g/cm3
Solubility(ies)	:	
Water solubility	:	soluble
Auto-ignition temperature	:	Not determined
Oxidizing properties	:	No data available
Refractive index	:	No data available
Volatile organic compounds (VOC) content	:	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

inhalation (dust/mist/fume)

Skin

Eye contact

Acute toxicity

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 6 of 11

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

diiron trioxide:

Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

quartz:

Acute oral toxicity : LD50 Oral (Rat): 500 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

docosate sodium:

Acute oral toxicity : LD50 Oral (Rat): > 3,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rabbit): > 10,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Components:

diiron trioxide:

Species: Rabbit
Exposure time: 4 h
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

docosate sodium:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

diiron trioxide:

Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: OECD Test Guideline 405

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 7 of 11

GLP: yes

docusate sodium:

Species: Rabbit
Result: Risk of serious damage to eyes.
Exposure time: 72 h
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer.

IARC

Group 1: Carcinogenic to humans

quartz

14808-60-7

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

Known to be human carcinogen

quartz

14808-60-7

Reproductive toxicity

Not classified based on available information.

STOT Specific Target Organ Toxicity - single exposure

Not classified based on available information.

STOT Specific Target Organ Toxicity - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

diiron trioxide:

Toxicity to fish : LC0 (Fish): > 1,000 mg/l
Exposure time: 96 h

docusate sodium:

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 8 of 11

Toxicity to fish : LC50 (Fish): 20 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 36 mg/l
Exposure time: 48 h
Test Type: static test

Persistence and degradability

Components:

diiron trioxide:

Biodegradability : Remarks: No data available

quartz:

Biodegradability : Remarks: No data available

mica:

Biodegradability : Remarks: No data available

docusate sodium:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Components:

diiron trioxide:

Bioaccumulation : Remarks: No data available

quartz:

Bioaccumulation : Remarks: No data available

mica:

Bioaccumulation : Remarks: No data available

docusate sodium:

Bioaccumulation : Remarks: No data available

Mobility in soil

Components:

diiron trioxide:

Distribution among environmental compartments : Remarks: No data available

quartz:

Distribution among environmental compartments : Remarks: No data available

mica:

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 9 of 11

Distribution among environmental compartments : Remarks: No data available

docusate sodium:

Distribution among environmental compartments : Remarks: No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA_12b - Not relevant

TSCA list : TSCA 5a - Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 10 of 11

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
methyloxirane	75-56-9	100	*
formaldehyde	50-00-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
methyloxirane	75-56-9	100	*
formaldehyde	50-00-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Chronic Health Hazard
Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

This product contains components that are reportable under the regulation.

Pennsylvania Right To Know

This product contains components that are reportable under the regulation.

New Jersey Right To Know

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

1433289		40-21002 SS Sand LIQ Bottle	
Product specification	RS_FP_606099	Revision Date	07/23/2019
Version	1.0	Print Date	08/15/2019
Material number	1433289	Page	Page 11 of 11

This product contains components that are reportable under the regulation.

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

The components of this product are reported in the following inventories:

EINECS (European Union)	: Not in compliance with the inventory
SWISS (Switzerland)	: Not in compliance with the inventory
TSCA (United States)	: On TSCA Inventory
DSL/NDSL (Canada)	: All components of this product are on the Canadian DSL.
AICS (Australia)	: On the inventory, or in compliance with the inventory
NZioC (New Zealand)	: On the inventory, or in compliance with the inventory
ENCS (Japan)	: On the inventory, or in compliance with the inventory
ISHL (Japan)	: Not in compliance with the inventory
KECI (Korea)	: On the inventory, or in compliance with the inventory
PICCS (Philippines)	: On the inventory, or in compliance with the inventory
IECSC (China)	: On the inventory, or in compliance with the inventory
TCSI (Taiwan)	: On the inventory, or in compliance with the inventory
CICR (Turkey)	: Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Revision Date : 07/23/2019

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN