

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

 1433451
 Liquid Black

 Product specification
 RS\_FP\_606588
 Revision Date
 09/22/2020

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### **SECTION 1. IDENTIFICATION**

Product name : 1433451

Liquid Black

Material number : 1433451

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 : Industrial use

Restrictions on use : Reserved for industrial and professional use.

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Carcinogenicity : Category 2

**GHS Label element** 

Hazard pictograms



Signal word : Warning

Hazard statements : H351 Suspected of causing cancer.

Precautionary statements : **Prevention:** 

P201 Obtain special instructions before

use.

P202 Do not handle until all safety

precautions have been read and

understood.

P280 Wear protective gloves/ protective

clothing/ eye protection/ face

protection.

Response:

P308 + P313 IF exposed or concerned: Get

medical advice/ attention.

Disposal:



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P501 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 : inorganic pigment, water

### **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
carbon black	1333-86-4	>= 20 - < 30
Sodium Polynaphthalenesulfonate	9084-06-4	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice : Consult a physician.

If inhaled : If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms

and effects, both acute and

delayed

: Suspected of causing cancer.

### **SECTION 5. FIREFIGHTING MEASURES**

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and spread

fire.

Cool closed containers exposed to fire with water spray.

Hazardous combustion

products

: No hazardous combustion products are known

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.



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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Material can create slippery conditions.

**Environmental precautions** 

: Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
carbon black	1333-86-4	TWA	3.5 mg/m3	NIOSH REL
		TWA	3.5 mg/m3	OSHA Z-1
		TWA	3.5 mg/m3	OSHA P0
		TWA	0.1 mg/m3 (PAHs)	NIOSH REL
		TWA (Inhalable fraction)	3 mg/m3	ACGIH

### Hazardous components without workplace control parameters

Components	CAS-No.
Sodium	9084-06-4
Polynaphthalenesulfonate	

Engineering measures : No data available

Personal protective equipment

Eye protection : Safety glasses

Ensure that eyewash stations and safety showers are close

to the workstation location.

Protective measures : Wear suitable protective equipment.



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Avoid contact with skin.

When using do not eat, drink or smoke.

Hygiene measures : Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : paste
Colour : black
Odour : odourless

Odour Threshold : No data available

pH : No data available Melting point/range : No data available

Boiling point/boiling range : 100 °C

Flash point :  $> 110 \, ^{\circ}\text{C}$ 

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Burning rate : No data available Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available Relative vapour density : No data available

Relative density : 1.12

Bulk density : No data available

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : Not determined Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : > 411 mm2/s (23 °C)

> 473 mm2/s (20 °C)

Flow time : 61 s at 23 °C



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> Cross section: 6 mm Method: ISO 2431

> 100 s at 23 °C Cross section: 4 mm Method: ISO 2431

>= 90 s at 20 °C Cross section: 4 mm Method: DIN 53211

>= 30 s at 23 °C Cross section: 3 mm Method: ISO 2431

Explosive properties No data available Oxidizing properties Not applicable 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 SOCMI 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 : Stable under recommended storage conditions. Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : No data available Incompatible materials : No data available

products

Hazardous decomposition : No data available

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

inhalation (dust/mist/fume) inhalation (vapour)

Skin

Ingestion Eye contact

# **Acute toxicity**

Not classified based on available information.

## **Components:**

carbon black:

: LD50 Oral (Rat): > 15,400 mg/kg Acute oral toxicity



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## Sodium Polynaphthalenesulfonate:

Acute oral toxicity : LD50 Oral (Rat): > 3,800 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

# Sodium Polynaphthalenesulfonate:

Species: Rabbit

Result: Mild eye irritation Assessment: Irritating to eyes.

#### 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

Suspected of causing cancer.

IARC Group 2B: Possibly carcinogenic to humans

carbon black 1333-86-4

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 No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### 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.



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#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No data available

# Persistence and degradability

Components: carbon black:

Biodegradability : Remarks: No data available

### **Bioaccumulative potential**

Components: carbon black:

Bioaccumulation : Remarks: No data available

### Mobility in soil

Components: carbon black:

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



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### 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**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Chronic 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 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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

#### Massachusetts Right To Know



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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** 

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) : On the inventory, or 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) : On the inventory, or in compliance with the inventory

INSQ (Mexico) : On the inventory, or in compliance with the inventory

#### **SECTION 16. OTHER INFORMATION**

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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



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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.

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