

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

 1437300
 40-31014 PS BLUE HARBOR LIQ Bottle

 Product specification
 RS_FP_606535
 Revision Date
 08/03/2020

 Version
 1.1
 Print Date
 08/04/2020

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SECTION 1. IDENTIFICATION

Product name : 1437300

40-31014 PS BLUE HARBOR LIQ Bottle

Material number : 1437300

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

Serious eye damage : Category 1

GHS Label element

Hazard pictograms

T B

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : **Prevention:**

P280 Wear eye protection/ face

protection.

Response:

P305 + P351 + IF IN EYES: Rinse cautiously with P338 + P310 water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/

physician.

Other hazards

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : metal oxide/hydroxide, inorganic pigment, water, organic dye

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
C.I. Pigment Blue 15	147-14-8	>= 5 - < 10
Co-Al spinel blue Cl Pigment Blue 28	1345-16-0	>= 5 - < 10
docusate sodium	577-11-7	>= 1 - < 5
nonylphenol polyglycol ether	9016-45-9	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice Consult a physician.

If unconscious place in recovery position and seek medical If inhaled

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. If symptoms persist, call a physician.

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

: Causes serious eye damage.

SECTION 5. FIREFIGHTING MEASURES

Specific hazards during

firefighting

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

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

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

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 : Avoid contact with skin and eyes.

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
C.I. Pigment Blue 15	147-14-8	TWA	1 mg/m3 (Copper)	NIOSH REL
Co-Al spinel blue Cl Pigment Blue 28	1345-16-0	TWA	0.02 mg/m3 (Cobalt)	ACGIH
		PEL	0.1 mg/m3 (Cobalt)	OSHA P0
		PEL	0.05 mg/m3 (Cobalt)	NIOSH REL

Hazardous components without workplace control parameters

Components	CAS-No.
docusate sodium	577-11-7
nonylphenol polyglycol ether	9016-45-9

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
Co-Al spinel blue Cl	1345-16-0	Cobalt	Urine		0.015 mg/l	ACGIH
Pigment Blue 28						BEI
		Cobalt	Blood		0.001 mg/l	ACGIH
						BEI



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Engineering measures : No data available

Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Do not wear contact lenses.

Protective measures : Wear suitable protective equipment.

Avoid contact with skin.

When using do not eat, drink or smoke.

Hygiene measures : Avoid contact with skin, eyes and clothing.

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 : blue

Odour : characteristic
Odour Threshold : No data available

pH : No data available
Melting point/range : No data available
Boiling point/boiling range : No data available
Flash point : No data available
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 : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : Not determined

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : Not determined



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Decomposition temperature

Viscosity

: No data available

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

> 473 mm2/s (20 °C)

Flow time : 61 s at 23 °C

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 : Stable under recommended storage conditions.

No decomposition if used as directed. No hazards to be specially mentioned.

No decomposition if stored and applied as directed.

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

products

reactions

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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



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Skin Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

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

Method: Calculation method

Components:

C.I. Pigment Blue 15:

Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg

Co-Al spinel blue Cl Pigment Blue 28:

Acute oral toxicity : LD50 (Rat, male): > 10,000 mg/kg

Method: OECD Test Guideline 401

GLP: no

docusate 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

nonylphenol polyglycol ether:

Acute oral toxicity : LD50 Oral (Rat): 2,590 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Co-Al spinel blue CI Pigment Blue 28:

Species: Rabbit Exposure time: 4 h

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

GLP: no

docusate sodium:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

nonylphenol polyglycol ether:

Species: Rabbit

Assessment: Irritating to skin.

Result: Skin irritation



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Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Co-Al spinel blue Cl Pigment Blue 28:

Species: Rabbit

Result: No eye irritation Exposure time: 1 h

Assessment: No eye irritation Method: OECD Test Guideline 405

GLP: yes

docusate sodium:

Species: Rabbit

Result: Risk of serious damage to eyes.

Exposure time: 72 h

Method: OECD Test Guideline 405

nonylphenol polyglycol ether:

Species: Rabbit

Result: Risk of serious damage to eyes. Assessment: Risk of serious damage 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

Not classified based on available information.

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

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.



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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:

Co-Al spinel blue CI Pigment Blue 28:

Toxicity to fish : LC50 (Fish): 1,000 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 10,000 mg/l

Exposure time: 48 h

docusate sodium:

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

nonylphenol polyglycol ether:

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 1,821 mg/l

Exposure time: 48 h

Persistence and degradability

Components:

C.I. Pigment Blue 15:

Biodegradability : Remarks: No data available

Co-Al spinel blue Cl Pigment Blue 28:

Biodegradability : Remarks: No data available

docusate sodium:

Biodegradability : Remarks: No data available

nonylphenol polyglycol ether:

: Remarks: No data available Biodegradability

Bioaccumulative potential

Components:

C.I. Pigment Blue 15:



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Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

: Pow: 6.6 (25 °C)

Co-Al spinel blue CI Pigment Blue 28:

Bioaccumulation : Remarks: No data available

docusate sodium:

Bioaccumulation : Remarks: No data available

nonylphenol polyglycol ether:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

: log Pow: 3.7 (25 °C)

Mobility in soil

Components:

C.I. Pigment Blue 15:

Distribution among : Remarks: No data available

environmental compartments

Co-Al spinel blue CI Pigment Blue 28:

Distribution among : Remarks: No data available

environmental compartments

docusate sodium:

Distribution among : Remarks: No data available

environmental compartments nonylphenol polyglycol ether:

Distribution among : Remarks: No data available

environmental compartments

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).

Components:

nonylphenol polyglycol ether:

Results of PBT and vPvB : PBT substance vPvB substance

assessment

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods



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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 - 5(a) Significant New Use Rule List of Chemicals

SNUR Statement Proposed Rule

Component	TSCA 5a	
nonylphenol polyglycol ether	Not relevant	

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
methyloxirane	75-56-9	100	*
formaldehyde	50-00-0	100	*
1,4-Dioxane	123-91-1	100	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute Health Hazard



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SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This product contains components that are reportable under

the regulation.

Cobalt, inorganic compounds

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 contains components that are reportable under the regulation.

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 contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

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

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



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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 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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