

# SAFETY DATA SHEET

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

<b>1435827</b>		<b>40-31007 QS Aruba Sky LIQ Bottle</b>	
Product specification	<b>RS_FP_606363</b>	Revision Date	<b>02/28/2020</b>
Version	<b>1.0</b>	Print Date	<b>02/28/2020</b>
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## SECTION 1. IDENTIFICATION

Product name : **1435827**  
40-31007 QS Aruba Sky LIQ Bottle

Material number : **1435827**

### 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

Serious eye damage : Category 1

### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P280 Wear eye protection/ face  
protection.

**Response:**  
P305 + P351 +  
P338 + P310 IF IN EYES: Rinse cautiously with  
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, organic dye, inorganic pigment,  
inorganic salt, water, salt of organic acids/bases

### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
dichromium trioxide	1308-38-9	>= 5 - < 10
C.I. Pigment Blue 15	147-14-8	>= 5 - < 10
Co-Al spinel blue CI Pigment Blue 28	1345-16-0	>= 1 - < 5
barium sulphate	7727-43-7	>= 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.  
Most important symptoms  
and effects, both acute and  
delayed : Causes serious eye damage.

## 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

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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
dichromium trioxide	1308-38-9	TWA	0.5 mg/m <sup>3</sup> (chromium)	OSHA Z-1
		TWA	0.5 mg/m <sup>3</sup> (chromium)	ACGIH
		TWA	1 mg/m <sup>3</sup>	OSHA P0
		TWA	0.5 mg/m <sup>3</sup> (chromium)	NIOSH REL
		TWA	1 mg/m <sup>3</sup> (chromium)	OSHA Z-1
C.I. Pigment Blue 15	147-14-8	TWA	1 mg/m <sup>3</sup> (Copper)	NIOSH REL
Co-Al spinel blue CI Pigment Blue 28	1345-16-0	TWA	0.02 mg/m <sup>3</sup> (Cobalt)	ACGIH
		PEL	0.1 mg/m <sup>3</sup> (Cobalt)	OSHA P0
		PEL	0.05 mg/m <sup>3</sup> (Cobalt)	NIOSH REL
barium sulphate	7727-43-7	TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH

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## Hazardous components without workplace control parameters

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

## Biological occupational exposure limits

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

**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

Appearance : paste

Colour : blue

Odour : characteristic

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

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).

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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

Not classified based on available information.

#### Product:

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

#### Components:

##### ***dichromium trioxide:***

Acute oral toxicity : LD50 (Rat, male and female): 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity

##### ***C.I. Pigment Blue 15:***

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

##### ***Co-Al spinel blue CI Pigment Blue 28:***

Acute oral toxicity : LD50 (Rat, male): > 10,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

##### ***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:

##### ***dichromium trioxide:***

Species: Rabbit

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Exposure time: 24 h  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: no

***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.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Components:**

***Co-Al spinel blue CI 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

**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

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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.

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Components:**

##### ***dichromium trioxide:***

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: ISO 7346/1  
GLP: yes

##### ***Co-Al spinel blue CI Pigment Blue 28:***

Toxicity to fish : LC50 (Fish): 1,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 10,000 mg/l  
Exposure time: 48 h

##### ***docosate 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

### **Persistence and degradability**

#### **Components:**

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***dichromium trioxide:***

Biodegradability : Remarks: No data available

***C.I. Pigment Blue 15:***

Biodegradability : Remarks: No data available

***Co-Al spinel blue CI Pigment Blue 28:***

Biodegradability : Remarks: No data available

***barium sulphate:***

Biodegradability : Remarks: No data available

***docusate sodium:***

Biodegradability : Remarks: No data available

## Bioaccumulative potential

**Components:**

***dichromium trioxide:***

Bioaccumulation : Remarks: No data available

***C.I. Pigment Blue 15:***

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

***barium sulphate:***

Bioaccumulation : Remarks: No data available

***docusate sodium:***

Bioaccumulation : Remarks: No data available

## Mobility in soil

**Components:**

***dichromium trioxide:***

Distribution among  
environmental compartments : Remarks: No data available

***C.I. Pigment Blue 15:***

Distribution among  
environmental compartments : Remarks: No data available

***Co-Al spinel blue CI Pigment Blue 28:***

Distribution among  
environmental compartments : Remarks: No data available

***barium sulphate:***

Distribution among  
environmental compartments : Remarks: No data available

***docusate sodium:***



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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

### CERCLA Reportable Quantity

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

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\*: 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** : 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 product contains components that are reportable under the regulation.

Cobalt, inorganic compounds

Chromium III 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 SOCM I 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.

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**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) : Not in compliance with the inventory
- INSQ (Mexico) : Not in compliance with the inventory

## SECTION 16. OTHER INFORMATION

Revision Date : 02/28/2020

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