

ExxonMobil
Refining and Supply Company
P.O. Box 551
Baton Rouge, Louisiana 70821-0551

Richard A. Cotton
Environmental Department

ExxonMobil
Refining & Supply

May 23, 2008

Louisiana Department of Environmental Quality
P.O. Box 4312
Baton Rouge, LA 70821-4312
ATTENTION: Emergency & Radiological Services Division - SPOC
"UNAUTHORIZED DISCHARGE NOTIFICATION REPORT"

508-1941
T 105713
Russell Clark
ARO

Re: Letter of Notification
Unauthorized Discharge Report
State Police Incident #08-02855
Agency Interest Number: 2638

Dear Sir or Madam:

This letter serves as written notification of the events and circumstances surrounding the leak that occurred at the ExxonMobil Baton Rouge Refinery (BRRF) on May 19, 2008. This incident was reported for a potential impact to the public due to the close proximity of the leaking line to the railroad. The material did leak onto railroad property, but it is non-hazardous process water. We have determined that no reportable quantities have been exceeded.

If you have any questions regarding this notification, please contact me at 977-8337 or Lindsay Louque at 977-1777.

Sincerely,



LEL
I:\Brrf\brr_env\aqcontact\notify\OSD\051908\ln.doc
Airfile 1.1.01.08.092
Certified Mail No.: 7007 2680 0000 9905 3853

cc: State Police, HAZMAT Unit
Department of Health and Hospitals
Bobby Mayweather, LDEQ

Certified Mail No.: 7007 2680 0000 9905 3860

RECEIVED

MAY 28 2008

DEQ
Single Point of **Contact**

A Division of **Exxon Mobil Corporation**

ExxonMobil
Refining & Supply Company
P.O. Box 551
Baton Rouge, Louisiana 70821-0551

ExxonMobil
Refining & Supply

CERTIFIED MAIL™

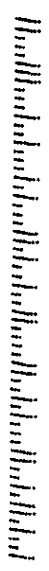


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UNITED STATES POSTAGE
PRIME V BOWENS
\$ 05.32⁰⁰
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MAY 23 2008
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LA Dept. of Environmental Quality
P. O. Box 4312
Baton Rouge, LA 70821-4312
Attention: Emergency & Radiological
Services Division- SPOC
"Unauthorized Discharge Notification Report"

708214312



Investigation Report

Facility: ExxonMobil
4045 Scenic Highway
Baton Rouge, LA 70805

Inspection Date:
05/19/08

License No.: No License
Agency Int.: 2638

Report Date:
06/03/08

Inspected by: Russell Clark
Environmental Scientist III

Persons Interviewed:
Robert Berg,
Environmental
Coordinator

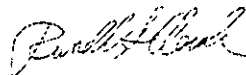
Report by: Russell Clark

Exit Interview:
Robert Berg

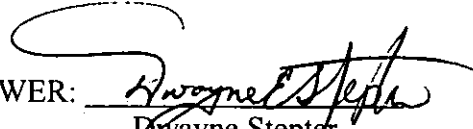
INVESTIGATION SUMMARY

This was an investigation of a self-reported spill, s08-1941, incident # 105713, which was reported on the date of the spill by ExxonMobil to the Department on May 19, 2008 at 7:35 am. The facility reported that Cobalt-containing compounds had been released from an underground line serving a catalytic caustic scrubber located in the Merox unit. The facility Environmental Coordinator, Mr. Robert Berg contacted Merox, the manufacturer of the Cobalt-containing compound, who identified the compound as Cobalt Phthalocyanine Sulfonate (CPS). The MSDS sheet for the spilled CPS was faxed by Mr. Berg to the Department, and examination of the MSDS sheet did not indicate the presence of radioactive material in the spilled catalyst. Mr. Berg stated the spill was remediated by mixing the solution and impacted soil with sand and having the resulting mixture shoveled up and placed into appropriately labeled drums. No site visit was conducted as part of the incident investigation and no further response from the facility or by the Division is required.

INSPECTED BY:


Russell Clark
Environmental Scientist III

REVIEWER:


Dwayne Stepter
ES Supervisor

DATE: June 3, 2008

DATE: 

Incident Description**Incident Type:** Release/Spill, Radiation Contamination/Exposure**Incident Date:** MAY-19-08 07:35**Parish:** East Baton Rouge**Municipality:** Baton Rouge**Location:** ExxonMobil Refinery4045 Scenic HwyBaton Rouge**Lat/Lon:****Basin/Segment:****Substance(s):****Media Impacted:** Soil**Incident Desc:** s08-1941Cobalt compounds released from an underground linecj**Incident Status****Lead Investigator:** Russell Clark**Incident Region:** Capital**Incident Status:** Closed**Followup Status:** Closed**As Of:** MAY-21-2008 08:34**Incident Reporter****Received By:** Carla James**Received Date:** MAY-19-2008 08:11**Dispatch #:** s08-1941**Reported By:** Robert Berg, Agency Interest Self Rept**Phone:** 225-977-7641**Reporter Title:****Organization:** ExxonMobil Refinery**Address:** P O Box 551**Municipality:** Baton Rouge**State:** LA**Zip Code:** 70821**Comments:** SP08-02855...cj

Robert Berg, Environmental Coordinator for ExxonMobil faxed Division copy of Merox Catalyst MSDS Sheet. Cobalt contained in catalytic reagent was determined to be non-radioactive. Release was remediated by mixing with sand, shovelled up and placed in labeled drums.

Incident Source

Source Name:

Address:

Municipality:

State:

Phone:

Parish:

AI #:

Related Permits:

Comments: Catalytic caustic scrubber in Merox unit leaked from an underground line, resulting in a release of a catalyst solution containing Cobalt Phthalocyanine Sulfonate.

Russell Clark

From: lindsay.e.louque@exxonmobil.com
Sent: Tuesday, May 20, 2008 3:02 PM
To: Russell Clark
Subject: Fw: ARI-100EXL CATALYST
Attachments: pic29646.jpg

Russell,

Per your discussion with Robert Berg, here is the confirmation from the catalyst supplier that the material is non-hazardous and does not contain any radioactive component.

Regards,

Lindsay E. Louque
Release Reporting Contact Engineer
Office: 225-977-1777
Fax: 225-977-1013
Pager: 225-377-1282
cell: 225-572-2216

(Embedded image moved to file: pic29646.jpg)

Please be advised, the raw materials that make up the ARI-100EXL Catalyst are non-hazardous, and do not have any materials that are Radio-Active.

Linda Bruss
TEL: 847-285-3853
FAX: 847-285-3888 or 3889
lbruss@merichem.com

Russell Clark

From: lindsay.e.louque@exxonmobil.com
Sent: Tuesday, May 20, 2008 3:01 PM
To: Russell Clark
Subject: Fw: MSDS for ARI-100EXL
Attachments: pic28687.jpg; ARI-100EXL (Revision 11).pdf; ARI-100EXL Product Bulletin Rev1.doc

Russell,

Per your discussion with Robert Berg, please find the attached MSDS for the catalyst containing the cobalt.

Regards,
Lindsay Louque

"Linda S. Bruss" <Lbruss@merich em.com>	<amanda.m.carlson@exxonmobil.com>	To
		cc
04/25/2008 10:23 AM	MSDS for ARI-100EXL	Subject

(Embedded image moved to file: pic28687.jpg)

Sorry, I did forget to email these to you. MSDS and Product Bulletin attached.

Thanks,

Linda Bruss
TEL: 847-285-3853
FAX: 847-285-3888 or 3889
lbruss@merichem.com

(See attached file: ARI-100EXL (Revision 11).pdf)(See attached file: ARI-100EXL Product Bulletin Rev1.doc)



MERICHEM
CHEMICALS & REFINERY SERVICES LLC

REVISION 11: July 1, 2006

MATERIAL SAFETY DATA SHEET

Page 1/4

1 IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

- 1.1 **Identification of the Product:** **ARI-100EXL**
- 1.2 **Company:** Merichem Chemicals & Refinery Services LLC
Gas Technology Products Division
846 East Algonquin Road, Suite A100
Schaumburg, IL 60173-3854, U.S.A.
- 1.3 **Transportation Emergency:** USA 1-800-424-9300 (CHEMTREC)
International 001-703-527-3887
- 1.4 **Product Information:** 1-847-285-3850
1-847-285-3888 (Fax)

2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance</u>	<u>CAS No.</u>	<u>% Present</u>	<u>Symbol(s)</u>	<u>R-Phrases</u>
Cobalt phthalocyanine sulfonates, proprietary	-	<30	Xi (Irritant)	36/37/38
Water	7732-18-5	Balance	-	-

3 HAZARDS IDENTIFICATION

May cause moderate eye irritation and mild skin irritation. Skin contact may result in staining. Respiratory system irritation may result from repeated or prolonged exposure.

HMIS Ratings (Estimated)

HEALTH	2
FLAMMABILITY	0
	0

NFPA Ratings (Estimated)

A diamond-shaped hazard label with a black background and white text. The top-left corner contains the number '2', the top-right corner contains '0', and the bottom-right corner contains '0'. A diagonal line runs from the top-left to the bottom-right.

4 FIRST-AID MEASURES

- In case of swallowing:** Wash out mouth thoroughly with water and provide symptomatic treatment for possible irritation of mucous membranes. Seek medical attention as needed.
- In case of inhalation:** Product is not volatile. If mist or aerosol is inhaled, remove to fresh air and provide symptomatic treatment.
- In case of contact with eyes:** Rinse immediately with plenty of water for at least 30 minutes and seek medical attention. Check for corneal damage from staining.
- In case of contact with skin:** Immediately remove contaminated clothing from affected area and wash affected area with plenty of soap and water using a soft brush to assist in removal of blue color (any remaining color will eventually fade). Clothing should be discarded or washed before reuse. Obtain medical assistance if irritation develops.

ARI-100EXL

5 FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media: Suitable - Water jets may be used for cooling drums.
Not suitable - None. Use extinguishing media appropriate for primary cause of fire.
- 5.2 Fire exposure hazards: May give off noxious fumes (e.g., cyanides and oxides of carbon, nitrogen, cobalt and sulfur). Prevent contamination of water systems by runoff.
- 5.3 Personal protective equipment: Wear Self Contained Breathing Apparatus and protective clothing appropriate for fire-fighting. Non-emergency personnel should be removed from the area immediately.

6 ACCIDENTAL RELEASE MEASURES

Observe any warning labels on the container (See Sections 14 and 15). Take precautions to avoid exposure (See Section 8).

Contain any spilled material immediately with dry agent (sand, vermiculite, etc.). Vacuum or shovel agent and absorbed material into labelled containers for disposal (See Section 13). DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.

7 HANDLING AND STORAGE

- 7.1 Handling: Handle/weigh this product under conditions of good local exhaust ventilation. Avoid breathing mist or aerosol, swallowing and eye and skin contact. If needed, use personal protective equipment (See Section 8). Do not eat, drink or smoke in areas where ARI-100EXL is used or stored. Clean protective equipment after each use. Do not reuse container. Rinse container with water and add to process to recover all active ingredients.
- 7.2 Storage: Store in a cool place and replace lid after use.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Respiratory: Wear respiratory protection to prevent inhalation of uncontained harmful mists or aerosols that may be formed during handling and to prevent exposure above regulatory levels (see Section 16).
- 8.2 Hand: Butyl rubber gloves or gauntlets
- 8.3 Eye: Goggles or eye/face shield
- 8.4 Skin: Proper work attire (ie. Long sleeve shirt, long pants, boots)

9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance: Dark blue liquid
- 9.2 Odour: None
- 9.3 pH: 5.5 - 7.5
- 9.4 Boiling Pt./range: 100°C, approximately
- 9.5 Freezing Pt./Range: -6.5°C, approx.
- 9.6 Flash point: Not flammable (Aqueous solution. Will not burn until dried out).
- 9.7 Flammability: See 9.6
- 9.8 Autoflammability: See 9.6
- 9.9 Explosive properties: Not explosive
- 9.10 Oxidizing properties: Not an oxidizer
- 9.11 Vapor pressure: Similar to water.
- 9.12 Relative density (H₂O = 1): 1.07 - 1.17
- 9.13 Bulk density: See 9.12

ARI-100EXL

9 PHYSICAL AND CHEMICAL PROPERTIES - Continued

- 9.14 Solubility: Water - Miscible in all proportions
Fat (type) - Not determined
Other solvents - Not determined
- 9.15 Partition coefficient: Log P_{O/W} (Octanol/water) - Not determined
- 9.16 Other data: Volatiles (%w/w @ 105 °C) = 68.6 – 71.4

10 STABILITY AND REACTIVITY

- 10.1 Conditions to avoid: Do not heat above 300 °C.
- 10.2 Materials to avoid: Materials that react violently with water.
- 10.3 Hazardous decomposition products: Cyanides and oxides of carbon, nitrogen, cobalt and sulfur may be released on burning or heating to decomposition.

11 TOXICOLOGICAL INFORMATION

Acute: Unlikely to be harmful if swallowed (Oral LD₅₀ >5,000 mg/kg). May cause mild skin irritation and moderate eye irritation. Vapor or mist inhalation may cause respiratory system irritation.

Chronic: As a group, cobalt compounds are regarded as potential sensitizers by several countries. Consequently, persons with a history of allergic complaints (skin or respiratory) should avoid handling this product.

While the active ingredient in the product was not specifically cited, IARC considers "Cobalt and Cobalt Compounds" as possibly carcinogenic to humans (Group 2B). Neither Cobalt nor Cobalt Compounds are listed as carcinogenic or having carcinogenic potential by OSHA or NTP. One reference indicates a result of "Active With Metabolic Activation" for the Mouse Lymphoma Forward Mutation Assay.

12 ECOLOGICAL INFORMATION

Not tested. Avoid discharge to the environment without prior treatment.

13 DISPOSAL CONSIDERATIONS

Generators of waste material are responsible for evaluating materials for compliance with all applicable procedures and regulations. Disposal of unused materials must be in accordance with all local, state and federal regulations. Containers should be cleaned of residual product and rinsed according to all local, state and federal regulations prior to disposal.

Disposal may be carried out at an approved landfill or by evaporating and burning under controlled conditions at a permitted facility. Stack gases must be scrubbed to remove decomposition products.

The effects, if any, of this product's active ingredient upon wastewater treatment systems have not been evaluated. However, a localized blue coloration may be expected if a large volume is discharged. The coloration is expected to quickly dissipate due to the active ingredient's water solubility and subsequent dilution in the treatment system.

14 TRANSPORT INFORMATION

Proper Shipping Name: Not regulated for transportation.

UN No.: None

Symbol: None

Hazard Class: None

ADR/RID Item No: None

IATA/DGR limits: None

IMDG/IMO Code: None

Complies with International Maritime Dangerous Goods Code (IMDG Code); Harmony Code Number (Schedule B Number); 3815.90.0000.

ARI-100EXL

15 REGULATORY INFORMATION

Components listed as "dangerous" in Annex I to Directive 67/548/EEC⁽⁸⁾

<u>Component or impurity</u>	<u>Annex I Number</u>
None listed.	

Classified according to the Directives 67/548/EEC and 88/379/EEC, and their various amendments, and labeled: ARI-100EXL

Warning symbol:



St. Andrew's Cross (Xi)

Warning words:

IRRITANT

Risk phrases:

R36/37/38 (Irritating to eyes, respiratory system and skin.)

Safety phrases:

S23 (Do not breathe spray.)
 S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice)
 S36/37/39 (Wear suitable protective clothing, gloves and eye/face protection)

16 OTHER INFORMATION

Occupational Exposure Levels None established.

SARA : Section 311/312 – Immediate Health Hazard
 Section 313 – Cobalt Compounds (Category N096)

<u>WHMIS:</u>	<u>CAS Number</u>	<u>Rating</u>
	Cobalt Phthalocyanine Sulfonate	-
	7732-18-5	-

Germany: Cobalt compounds regarded as A2 carcinogens and skin sensitizers.

Denmark: Cobalt compounds regarded as potential carcinogens.

<u>Inventories:</u>	<u>CAS Number</u>	<u>TSCA</u>	<u>DSL</u>	<u>EINECS</u>
	Cobalt Phthalocyanine Sulfonate	Yes	Yes	Yes
	7732-18-5	Yes	Yes	Yes

Intended Uses: Catalytic reagent for petroleum fraction sweetening. No other use is intended.

Revisions: The latest information changes are indicated by 20% shading.

The format of this Safety Data Sheet conforms to the requirements of EC Directive 91/155/EEC.

The information on this form is furnished solely for the purpose of enabling those who transport, handle or use our products to ensure the safety and health of their employees and to comply with various laws and regulations (federal, state and local). This information is offered in good faith and is believed to be accurate. Merichem Chemicals & Refinery Services LLC, however, makes no guarantee or warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use hereof.

ARI-100EXL

PRODUCT BULLETIN

ARI-100EXL CATALYTIC REAGENT

DESCRIPTION

ARI-100EXL REAGENT IS A QUALITY CATALYTIC REAGENT USED IN THE REMOVAL OF MERCAPTANS OR SWEETENING OF PETROLEUM FRACTIONS. IT IS A MORE SOLUBLE FORM OF ARI-100L AND IS AVAILABLE FROM STOCK IN EITHER 1 GALLON OR 1 QUART DISPOSABLE PLASTIC BOTTLES. THE GALLON BOTTLE CONTAINS A MINIMUM OF 2.2 LBS OR 1 KILOGRAM OF ACTIVE INGREDIENTS AND IS PACKAGED AND SOLD 4 BOTTLES TO A CASE. THE QUART BOTTLE CONTAINS A MINIMUM OF 1/2 LBS OF ACTIVE INGREDIENTS AND IS PACKAGED AND SOLD TWELVE BOTTLES TO A CASE.

MATERIAL IDENTIFICATION

Product Name/Synonyms	ARI-100EXL
Chemical Name/Family	Metal Complex
Formula	Proprietary
MSDS Number	93002
Effective Date	1-24-89; Revised August 2004
EMERGENCY NUMBER- USA & CANADA	CHEMTREC 1-800-424-9300
EMERGENCY NUMBER - INTERNATIONAL	CHEMTREC 001-703-527-3887

PHYSICAL DATA

Appearance	Dark Blue Liquid	Evaporation Rate	Similar to water
Boiling Point (°C)	100	Solubility in Water	Miscible
Freeze Point (°C)	-6.5	Odor	None
Viscosity (Cp) (@21°C)	7-9	Vapor Pressure	Similar to water
pH	5.5-7.5	Specific Gravity	1.15
Volatiles (% w/w @ 105°)	68.6-71.4	Water Reactive	Non reactive
Vapor Density	Similar to water		

COMPONENT

Cobalt Phthalocyanine Sulfonate, Catalyst, Proprietary

Minimum 25% dissolved solids

