

TOXICS REDUCTIONS PUBLIC REPORT
NOVA Chemicals Moore, Corunna, and St. Clair River Sites

CONTENTS

- 1.0 GENERAL INFORMATION- CORUNNA SITE
 - 1.0.1 INDUSTRIAL CLASSIFICATION CODES
 - 1.0.2 FACILITY INFORMATION
 - 1.0.3 PARENT COMPANY
 - 1.0.4 FACILITY CONTACT
 - 1.0.5 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

- 1.1 TRA APPLICABLE SUBSTANCES
 - 1.1.1 BENZENE
 - 1.1.2 1,3-BUTADIENE
 - 1.1.3 ETHYL BENZENE
 - 1.1.4 XYLENE
 - 1.1.5 TOLUENE
 - 1.1.6 NAPHTHALENE
 - 1.1.7 SULFURIC ACID

- 2.0 GENERAL INFORMATION- MOORE SITE
 - 2.0.1 INDUSTRIAL CLASSIFICATION CODES
 - 2.0.2 FACILITY INFORMATION
 - 2.0.3 PARENT COMPANY
 - 2.0.4 FACILITY CONTACT
 - 2.0.5 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

- 2.1 TRA APPLICABLE SUBSTANCES
 - 2.1.1 SULFURIC ACID
 - 2.1.2 NAPHTHALENE
 - 2.1.3 HEXAVALENT CHROME

- 3.0 GENERAL INFORMATION- SCRS
 - 3.0.1 INDUSTRIAL CLASSIFICATION CODES
 - 3.0.2 FACILITY INFORMATION
 - 3.0.3 PARENT COMPANY
 - 3.0.4 FACILITY CONTACT
 - 3.0.5 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

- 2.1 TRA APPLICABLE SUBSTANCES
 - 2.1.1 SULFURIC ACID
 - 2.1.2 NAPHTHALENE
 - 2.1.3 BIPHENYL

1.0 CORUNNA SITE GENERAL INFORMATION

1.0.1 Industrial Classification Codes

| | |
|-------------------------------|---|
| NOVA Corunna Site NPRI Code: | 001776 |
| CDN SIC 4-digit Code: | 3712 (Industrial Organic Chemical Inds) |
| U.S. SIC Code: | 2869 (Industrial Organic Chemicals) |
| NAICS 6-digit Code: | 325110 (Petrochemical Mfg.) |
| Secondary NAICS 6-digit Code: | 325999 (Other Chemical Product Mfg) |
| Tertiary NAICS 6-digit Code: | 324110 (Petroleum Refineries) |

1.0.2 Facility Information

NOVA CHEMICALS- Corunna Site

Street address:

785 Petrolia Line
Corunna, ON
N0N 1G0

Mailing address:

P.O Box 3060
Sarnia, ON
N7T 8C7

Spatial Coordinates

| | |
|----------------------|---------|
| Latitude: | 42.8811 |
| Longitude: | 82.4047 |
| Number of employees: | 650 |

1.0.3 Parent Company

| | |
|-----------------------|----------------------------|
| Parent Company Name: | NOVA Chemicals Corporation |
| Percentage Ownership: | 100 |

Street address:

1000 7th Avenue SW
Calgary, AB
T2P 5L5

Mailing address:

P.O. Box 2518, Station M
Calgary, AB
T2P 5C6

1.0.4 Facility Contact

| | |
|-------------|---------------------------------|
| Name | Krista Hagan |
| Position | Community Relations Coordinator |
| Telephone # | 519-481-2867 |

1.0.5 Certification By Highest Ranking Employee

As of June 15, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Benzene, 1,3-Butadiene, Ethylbenzene, Naphthalene, Sulphuric acid, Toluene, Volatile Organic Compounds (VOCs), Xylene (all isomers)} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09(General) made under the Act.



Tom Thompson, Regional Manufacturing Director

1.1 TRA APPLICABLE SUBSTANCES

Benzene, 1,3-butadiene, xylene, toluene, ethyl benzene, naphthalene and sulfuric acid met the criteria specified in Ontario Regulation 455/09 under the Toxics Reduction Act for the 2010 reporting year.

1.1.1 Benzene (71-43-2)

| | |
|---|----------------------------|
| Used: | 10,000- 100,000 tonnes |
| Created: | 10,000- 100,000 tonnes |
| Contained In Product: | 100,000 – 1,000,000 tonnes |
| Releases to Air: | 12.3713 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment (Incineration): | 0.01 tonnes |

1.1.2 1,3- Butadiene (106-99-0)

| | |
|------------------------------------|---------------------------|
| Used: | 100-1,000 tonnes |
| Created: | 100,000- 1,000,000 tonnes |
| Contained In Product: | 10,000- 100,000 tonnes |
| Releases to Air: | 2.6018 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling: | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

1.1.3 Ethyl Benzene (100-41-4)

| | |
|-------------------------------------|------------------------|
| Used: | 1,000- 10,000 tonnes |
| Created: | 10,000- 100,000 tonnes |
| Contained In Product: | 10,000- 100,000 tonnes |
| Releases to Air: | 0.8501 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

1.1.4 Xylene (1330-20-7)

| | |
|-------------------------------------|------------------------|
| Used: | 10,000- 100,000 tonnes |
| Created: | 0 tonnes |
| Contained In Product: | 10,000- 100,000 tonnes |
| Releases to Air: | 2.9031 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite (Land Treatment): | 0.0001 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

1.1.5 Toluene (108-88-3)

| | |
|-----------------------|------------------------|
| Used: | 10,000- 100,000 tonnes |
| Created: | 10,000- 100,000 tonnes |
| Contained In Product: | 10,000- 100,000 tonnes |
| Releases to Air: | 8.5715 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |

| | |
|-------------------------------------|----------|
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

1.1.6 Naphthalene (91-20-3)

| | |
|-------------------------------------|----------------------|
| Used: | 1,000- 10,000 tonnes |
| Created: | 0 tonnes |
| Contained In Product: | 1,000- 10,000 tonnes |
| Releases to Air: | 1.5274 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite (Land Treatment): | 0.0004 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

1.1.7 Sulfuric Acid (7647-01-0)

| | |
|-------------------------------------|----------------------|
| Used: | 1,000- 10,000 tonnes |
| Created: | 100-1000 tonnes |
| Contained in Product: | 0 tonnes |
| Release to Air: | 146.99 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

***To maintain confidentiality, ranges were employed to represent the mass amount of each toxic substance used, created and contained in product for the 2010 reporting year.

2.0 NOVA CHEMICALS MOORE SITE

2.0.1 Industrial Classification Codes

| | |
|----------------------------|--|
| NOVA Moore Site NPRI Code: | 001788 |
| CDN SIC 4-digit Code: | 3731 (Plastic and Synthetic Resins Inds) |
| U.S. SIC Code: | 2821 (Plastic Materials and Resins) |
| NAICS 6-digit Code: | 325210 (Resin and Synthetic Rubber) |

2.0.2 Facility Information

NOVA CHEMICALS- Moore Site

Street address:

510 Moore Line
Mooretown, ON
N0N 1M0

Mailing address:

P.O Box 3042
Sarnia, ON
N7T 8C9

Spatial Coordinates:

| | |
|----------------------|---------|
| Latitude: | 42.8489 |
| Longitude: | 82.4222 |
| Number of employees: | 252 |

2.0.3 Parent Company

| | |
|-----------------------|----------------------------|
| Parent Company Name: | NOVA Chemicals Corporation |
| Percentage Ownership: | 100 |

Street address:

1000 7th Avenue SW
Calgary, AB
T2P 5L5

Mailing address:

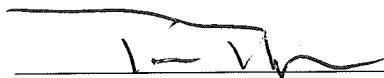
P.O. Box 2518, Station M
Calgary, AB
T2P 5C6

2.0.4 Facility Contact

| | |
|-------------|---------------------------------|
| Name | Krista Hagan |
| Position | Community Relations Coordinator |
| Telephone # | 519-481-2867 |

2.0.5 Certification By Highest Ranking Employee

As of June 15, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Hexavalent Chromium (and its compounds), Naphthalene, Sulphuric acid} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09(General) made under the Act.



Tom Thompson, Regional Manufacturing Director

2.1 TRA APPLICABLE SUBSTANCES

Sulfuric Acid, Naphthalene and Hexavalent Chromium met the criteria specified in Ontario Regulation 455/09 under the Toxics Reduction Act for the 2010 reporting year.

2.1.1 Sulfuric Acid (7664-93-9)

| | |
|-------------------------------------|-----------------|
| Used: | 10 - 100 tonnes |
| Created: | >0 -1 tonne |
| Contained in Product: | 0 tonnes |
| Releases to Air: | 0.8457 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

2.1.2 Naphthalene (91-20-3)

| | |
|-------------------------------------|----------------|
| Used: | 10 -100 tonnes |
| Created: | 0 tonnes |
| Contained in Product: | 0 tonnes |
| Releases to Air: | 0.005 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

2.1.3 Hexavalent Chromium

| | |
|---|----------------|
| Used: | 100 - 1,000 kg |
| Created: | >0 - 1 kg |
| Contained in Product: | 0 kg |
| Releases to Air: | 0.0758 kg |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment (Physical): | 0.0019 kg |

***To maintain confidentiality, ranges were employed to represent the quantity of each toxic substance used, created and contained in product.

3.0 NOVA CHEMICALS ST.CLAIR RIVER SITE

3.0.1 Industrial Classification Codes

| | |
|--------------------------------------|--|
| NOVA St. Clair River Site NPRI Code: | 004700 |
| CDN SIC 4-digit Code: | 3731 (Plastic and Synthetic Resins Inds) |
| U.S. SIC Code: | 2821 (Plastic Materials and Resins) |
| NAICS 6-digit Code: | 325210 (Resin and Synthetic Rubber) |

3.0.2 Facility Information

NOVA CHEMICALS- St Clair River Site

Street address:

285 Albert Street
Corunna, ON
N0N 1G0

Mailing address:

P.O Box 3081
Sarnia, ON
N7T 8C1

Spatial Coordinates

| | |
|----------------------|---------|
| Latitude: | 42.8970 |
| Longitude: | 82.4398 |
| Number of employees: | 169 |

3.0.3 Parent Company

| | |
|-----------------------|----------------------------|
| Parent Company Name: | NOVA Chemicals Corporation |
| Percentage Ownership: | 100 |

Street address:

1000 7th Avenue SW
Calgary, AB
T2P 5L5

Mailing address:

P.O. Box 2518, Station M
Calgary, AB
T2P 5C6

3.0.4 Facility Contact

| | |
|-------------|---------------------------------|
| Name | Krista Hagan |
| Position | Community Relations Coordinator |
| Telephone # | 519-481-2867 |

3.0.5 Certification By Highest Ranking Employee

As of June 15, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Biphenyl, Naphthalene, Sulphuric acid} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09(General) made under the Act.



Tom Thompson, Regional Manufacturing Director

3.1 TRA APPLICABLE SUBSTANCES

Naphthalene, Sulfuric Acid, and Biphenyl met the criteria specified in Ontario Regulation 455/09 under the Toxics Reduction Act for the 2010 reporting year.

3.1.1 Sulfuric Acid (7664-93-9)

| | |
|-------------------------------------|-----------------|
| Used: | 10 - 100 tonnes |
| Created: | >0 - 1 tonne |
| Contained in Product: | 0 tonnes |
| Releases to Air: | 0.4280 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

3.1.2 Naphthalene (91-20-3)

| | |
|-------------------------------------|---------------|
| Used: | 10-100 tonnes |
| Created: | 0 tonnes |
| Contained in Product: | 0 tonnes |
| Releases to Air: | 0.0007 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

3.1.3 Bipheyl (92-52-4)

| | |
|-------------------------------------|--------------|
| Used: | 1-10 tonnes |
| Created: | 0 tonnes |
| Contained in Product: | 0 tonnes |
| Releases to Air: | 0.726 tonnes |
| Releases to Land: | 0 tonnes |
| Releases to Water: | 0 tonnes |
| Disposed Onsite: | 0 tonnes |
| Disposed Offsite: | 0 tonnes |
| Transferred Offsite for Recycling : | 0 tonnes |
| Transferred Offsite for Treatment: | 0 tonnes |

***To maintain confidentiality, ranges were employed to represent the quantity of each toxic substance used, created and contained in product.