



December 10, 2015

Ms. McKeone,



In response to your letter, dated June 15, 2015, concerning changes made to the Grantsville facility and other points of interest to the DAQ application. We are opening a new facility. I have made corrections to the emissions points and I hope they are in line. The signatures on the appropriate form have been sent to the president of the company and resigned in blue ink as requested. I have reviewed the attached checklist you enclosed with the return letter and have made the necessary changes. The process description noted on the checklist is "attachment G pg 12" including pictures of equipment used. Please feel free to call or email me with any further findings necessary to the acquisition of the DAQ permits for the Hope location in Grantsville.

Sincerely

Jim Hughes

jimhughes@rprind.com

General Supervisor

RPR Industries

304-354-7844 w

304-354-7132 f

Table of Contents

	Page
Cover sheet	
Application for NSR Permit	1-4
Attachment A- Business Registration Certificate	5
Attachment B- 1 through B-3	6-8
Attachment E- Plot Plan	9-10
Attachment F- Process Flow Diagram	11
Attachment G- Process Description	12
Attachment H-1 MSDS Sheet for Toluene	13-24
Attachment H-2 MSDS Sheet for MEK	25-35
Attachment I – Emission Units Table	36
Attachment J- Emission Points Data Summary Sheet	37
Attachment K- Fugitive Emissions sheet	38-39
Attachment P – Air Quality Permit Notice of Advertisement	40-41
Attachment R- Authority of Corporation or Other Business Entity	42

**NEW CONSTRUCTION APPLICATION
FOR DAQ PERMIT**

December 10, 2015



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

**APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT REVISION
(OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):

- CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):

- ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): R.P.R. Industries, Inc.		2. Federal Employer ID No. (FEIN): 55-056-9081	
3. Name of facility (if different from above): SAME		4. The applicant is the: <input type="checkbox"/> OWNER <input checked="" type="checkbox"/> OPERATOR <input type="checkbox"/> BOTH	
5A. Applicant's mailing address: PO Box 220 Grantsville, WV 26147		5B. Facility's present physical address: 100 Johnson Street Grantsville, WV 26147	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ⇒ If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A. ⇒ If NO, provide a copy of the Certificate of Authority/Authority of L.L.C./Registration (one page) including any name change amendments or other Business Certificate as Attachment A.			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation: N/A			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ⇒ If YES, please explain: LEASE ⇒ If NO, you are not eligible for a permit for this source.			
9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): Manufacturer of Life Saving Devices. Life Preservers Etc.		10. North American Industry Classification System (NAICS) code for the facility: 339113	
11A. DAQ Plant ID No. (for existing facilities only): -		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):	

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- ⇒ For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- ⇒ For **Construction** or **Relocation permits**, please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP as Attachment B**. Take Big Otter exit #40 form I-79 North, turn left at the bottom of the ramp. Follow Rt. 16 North approximately 33.4 miles to Grantsville. Turn left at the Foodland grocery store towards Northside. Follow the curve, the is situated across from Dominion which is on the right, the build is blue and white on the left side of the road, Johnson Street.

12.B. New site address (if applicable): 100 Johnson street	12C. Nearest city or town: Grantsville	12D. County: Calhoun
12.E. UTM Northing (KM): 491645	12F. UTM Easting (KM): 4307979	12G. UTM Zone: 17N

13. Briefly describe the proposed change(s) at the facility:

New construction/startup using toluene,during butyl rubber manufacturing.

14A. Provide the date of anticipated installation or change: 02 / 01 / 2016 ⇒ If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: / /	14B. Date of anticipated Start-Up if a permit is granted: 02 / 01 / 2016
--	---

14C. Provide a **Schedule** of the planned **Installation of/Change to** and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
10 Hours Per Day 4 Days Per Week 49 Weeks Per Year

16. Is demolition or physical renovation at an existing facility involved? YES NO

17. **Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III. N/A

18. **Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (*if known*). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (*if known*). Provide this information as **Attachment D**. N/A

Section II. Additional attachments and supporting documents.

- 19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).
 - 20. Include a **Table of Contents** as the first page of your application package.
 - 21. Provide a **Plot Plan**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to **Plot Plan Guidance**) .
⇒ Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).
 - 22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F**.
 - 23. Provide a **Process Description** as **Attachment G**.
⇒ Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).
- All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.**

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H**.

⇒ For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I**.

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J**.

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K**.

28. Check all applicable **Emissions Unit Data Sheets** listed below:

- | | | |
|--|--|--|
| <input type="checkbox"/> Bulk Liquid Transfer Operations | <input type="checkbox"/> Haul Road Emissions | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |
| <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator | <input type="checkbox"/> Storage Tanks |
| <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger | |
| <input checked="" type="checkbox"/> General Emission Unit, specify Attic Fan | | |

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L**.

29. Check all applicable **Air Pollution Control Device Sheets** listed below: N/A

- | | | |
|--|---|--|
| <input type="checkbox"/> Absorption Systems | <input type="checkbox"/> Baghouse | <input type="checkbox"/> Flare |
| <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser | <input type="checkbox"/> Mechanical Collector |
| <input type="checkbox"/> Afterburner | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> Wet Collecting System |
| <input type="checkbox"/> Other Collectors, specify N/A | | |

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M**.

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O**.

➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and **Example Legal Advertisement** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

YES NO

➤ If YES, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "**Precautionary Notice – Claims of Confidentiality**" guidance found in the **General Instructions as Attachment Q**.

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Authority of Corporation or Other Business Entity | <input type="checkbox"/> Authority of Partnership |
| <input type="checkbox"/> Authority of Governmental Agency | <input type="checkbox"/> Authority of Limited Partnership |

Submit completed and signed **Authority Form** as **Attachment R**.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. Certification of Information. To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

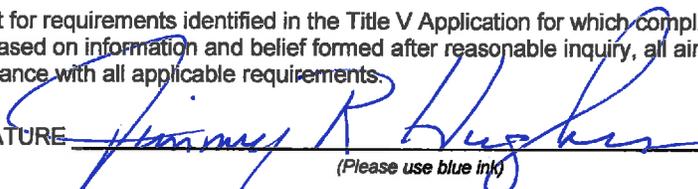
Certification of Truth, Accuracy, and Completeness

I, the undersigned Responsible Official / Authorized Representative, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE



(Please use blue ink)

DATE:

Dec 8, 2015

(Please use blue ink)

35B. Printed name of signee:

Jimmy R Hughes

35C. Title:

General Supervisor

35D. E-mail:

jimhughes@rprind.com

36E. Phone:

304-354-7844

36F. FAX:

304-354-7132

36A. Printed name of contact person (if different from above):

SAME

36B. Title:

36C. E-mail:

SAME

36D. Phone:

36E. FAX:

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input checked="" type="checkbox"/> Attachment B: Map(s) | <input type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input checked="" type="checkbox"/> Attachment E: Plot Plan | <input type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input checked="" type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input checked="" type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input checked="" type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input checked="" type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
- NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
- Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
- NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

cc. Jim

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**R P R INDUSTRIES INC
100 JOHNSON ST
GRANTSVILLE, WV 26147-8139**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2313-8623

This certificate is issued on: **04/22/2015**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

atL006 v.4
L0573632832



Trip to:

Grantsville, WV 26147

34.72 miles / 48 minutes

Notes

Homepage Sweet Homepage

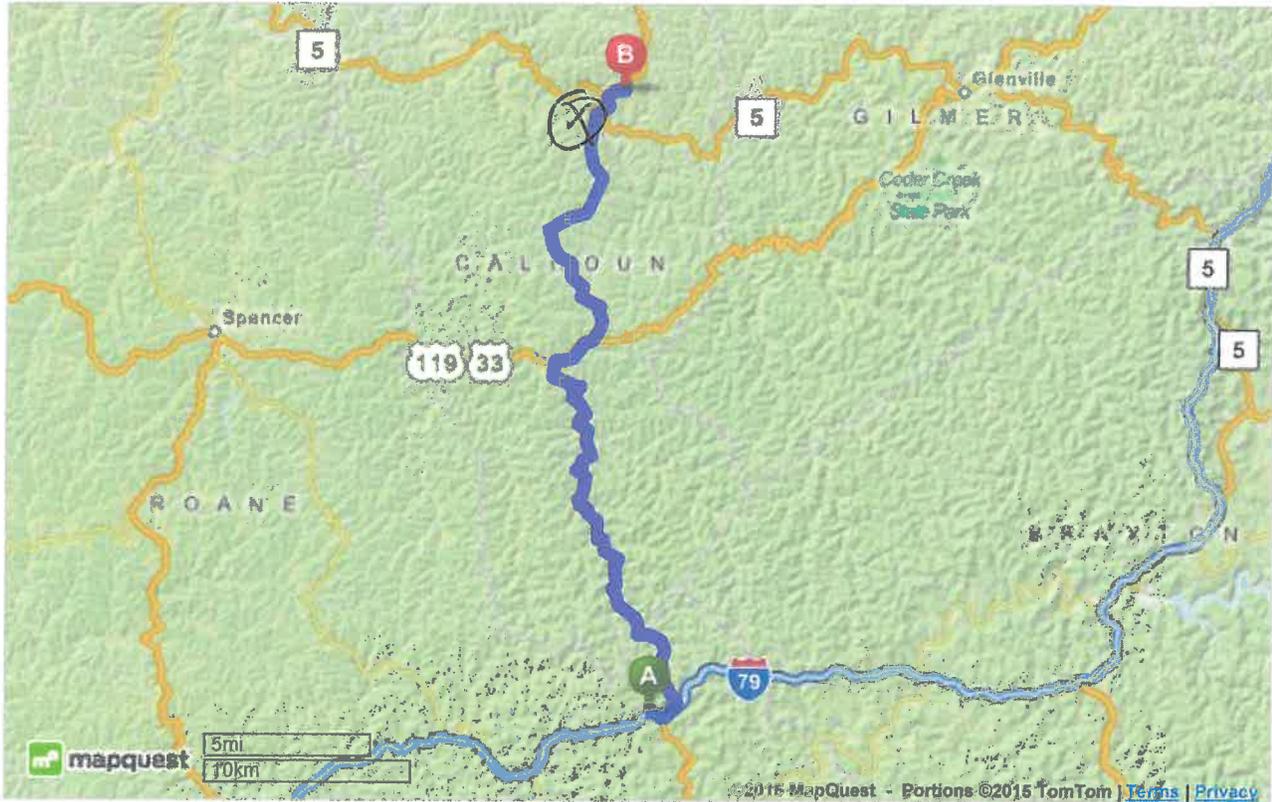
Aol.

Make AOL My Homepage

A	Big Otter, WV	Download Free App	
●	1. Start out going southeast on County Hwy-38 / Clinic Dr toward County Hwy-9 / Morris Hwy . Continue to follow Clinic Dr . Map	0.7 Mi <i>0.7 Mi Total</i>	
↶	16	2. Turn left onto WV-16 / Morris Hwy . Continue to follow WV-16 . Map	18.9 Mi <i>19.7 Mi Total</i>
↷	EAST 33	3. Turn sharp right onto US-33 E / US-119 N / WV-16 / S Calhoun Hwy . Map <i>If you are on US-33 E and reach County Hwy-5/4 you've gone about 0.3 miles too far</i>	1.8 Mi <i>21.4 Mi Total</i>
↶	16	4. Turn left onto WV-16 / S Calhoun Hwy . Continue to follow WV-16 . Map <i>WV-16 is 0.4 miles past County Hwy-5/6</i>	13.3 Mi <i>34.7 Mi Total</i>
■	5. Welcome to GRANTSVILLE, WV 26147 . Map <i>If you reach Vaughn Rd you've gone about 0.8 miles too far</i>		
B	Grantsville, WV 26147		

Attachment B-1 pg6

Total Travel Estimate: **34.72 miles - about 48 minutes**



©2015 MapQuest, Inc. Use of directions and maps is subject to the MapQuest Terms of Use. We make no guarantee of the accuracy of their content, road conditions or route usability. You assume all risk of use. [View Terms of Use](#)

Attachment B-1 pg 7

WV Flood Map



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map Created on 3/31/2015

	Location of the mouse click		Cross Section Line
	Approximate Study (Zone A)		Base Flood Elevation Line
	Detailed Study (Zone AE, AH, AO)		DFIRM Panel (Map) Index
	Floodway		
	Flood Water Depth (HEC-RAS)		

User Notes:

Attachment B-1 pg 8

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: AE

Advisory Flood Height: N/A

Water Depth: N/A

Elevation: About 699 feet

Location (long, lat): 81.096382 W, 38.920691 N

Location (UTM 17N): (491645, 4307979)

FEMA Issued Flood Map: 54013C0115C

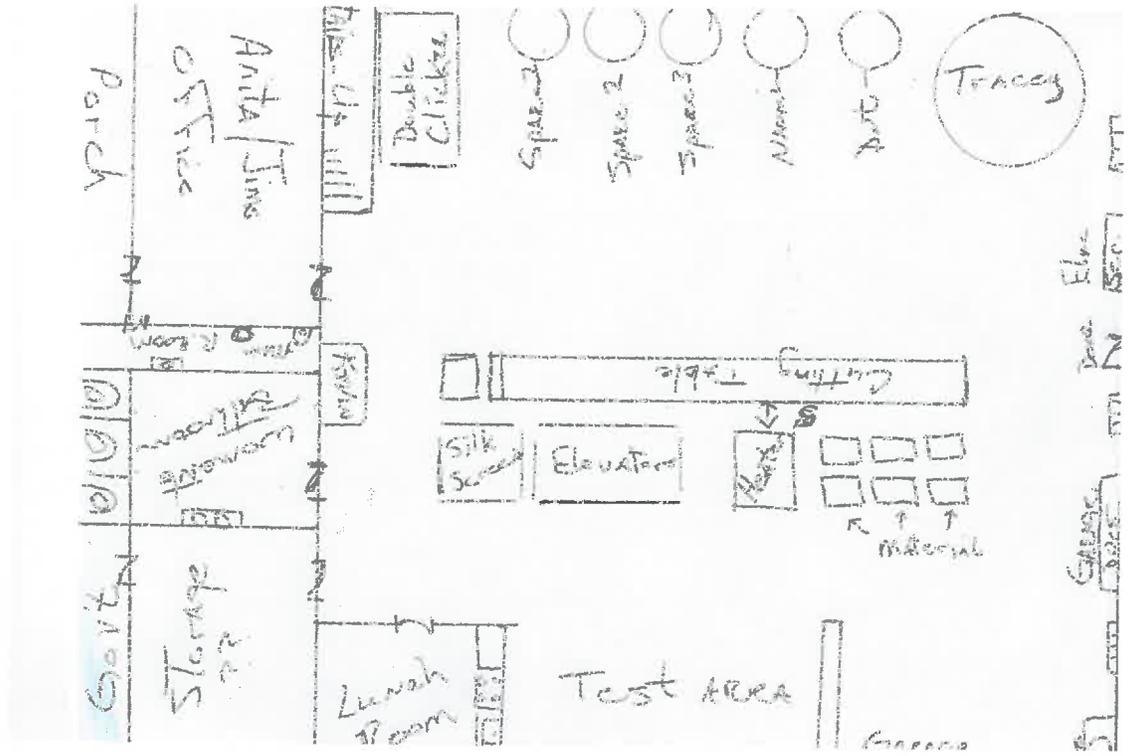
Contacts: Calhoun County

CRS Information: N/A

Flood Profile: 54013_005

HEC-RAS Model: No Model

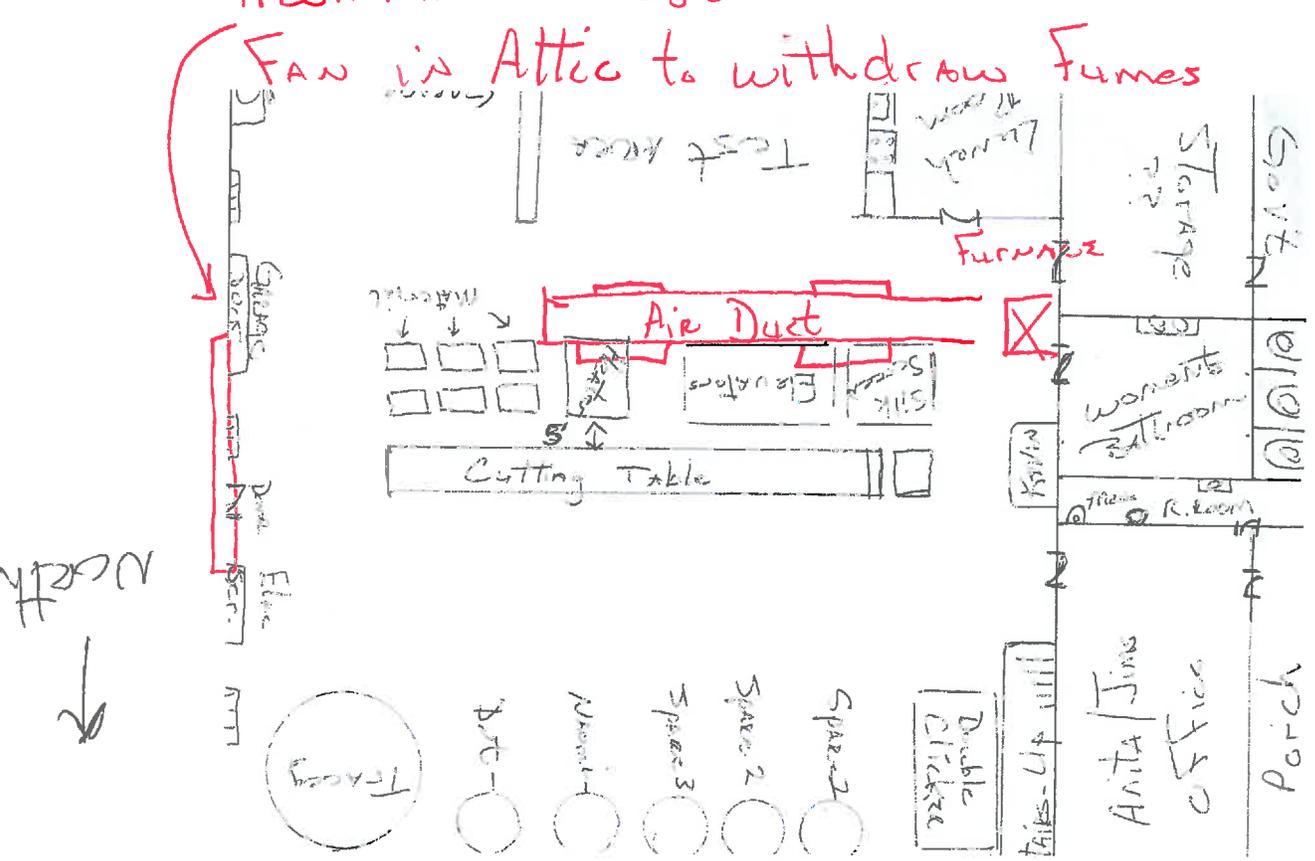
Parcel Number:

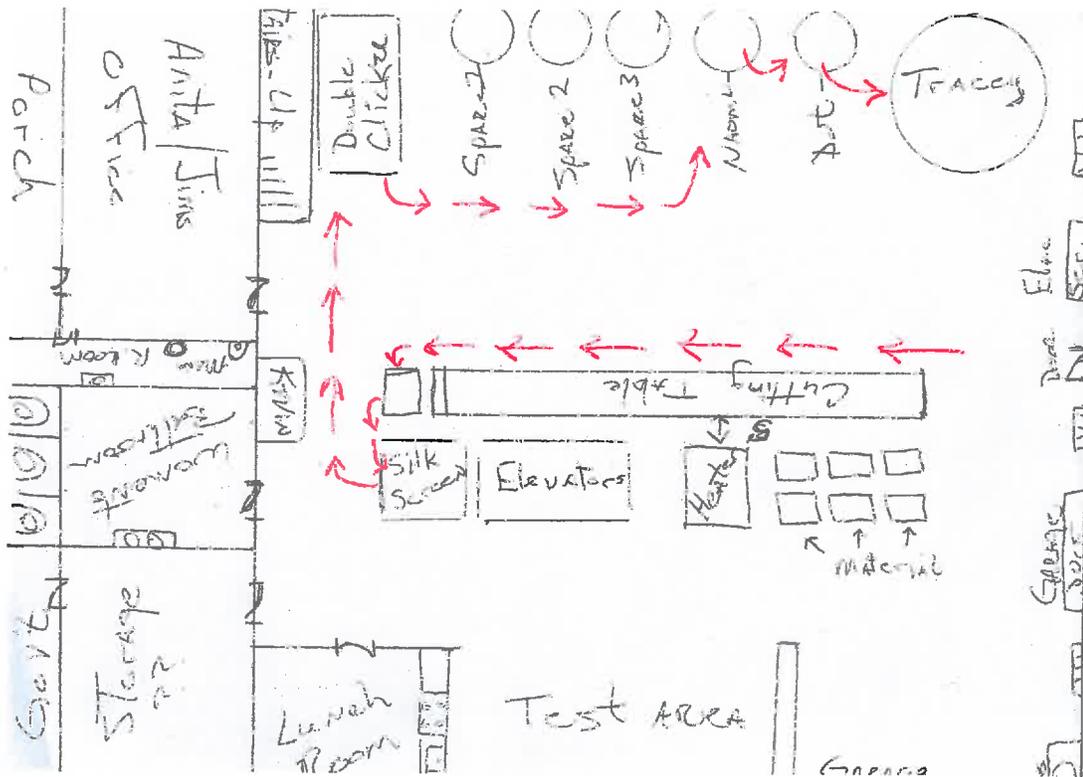


R.P.R. Industries, Inc.
100 Johnson Street
Grantsville, WV 26147

Fresh Air Exhaust

Fan in Attic to withdraw Fumes





Attachment F pg 11

NORTH ↑

R.P.R. Industries, Inc.
 (The Hope Building)
 100 Johnson Street
 Grantsville, WV 26147

Northing 491645

Westing 4307979

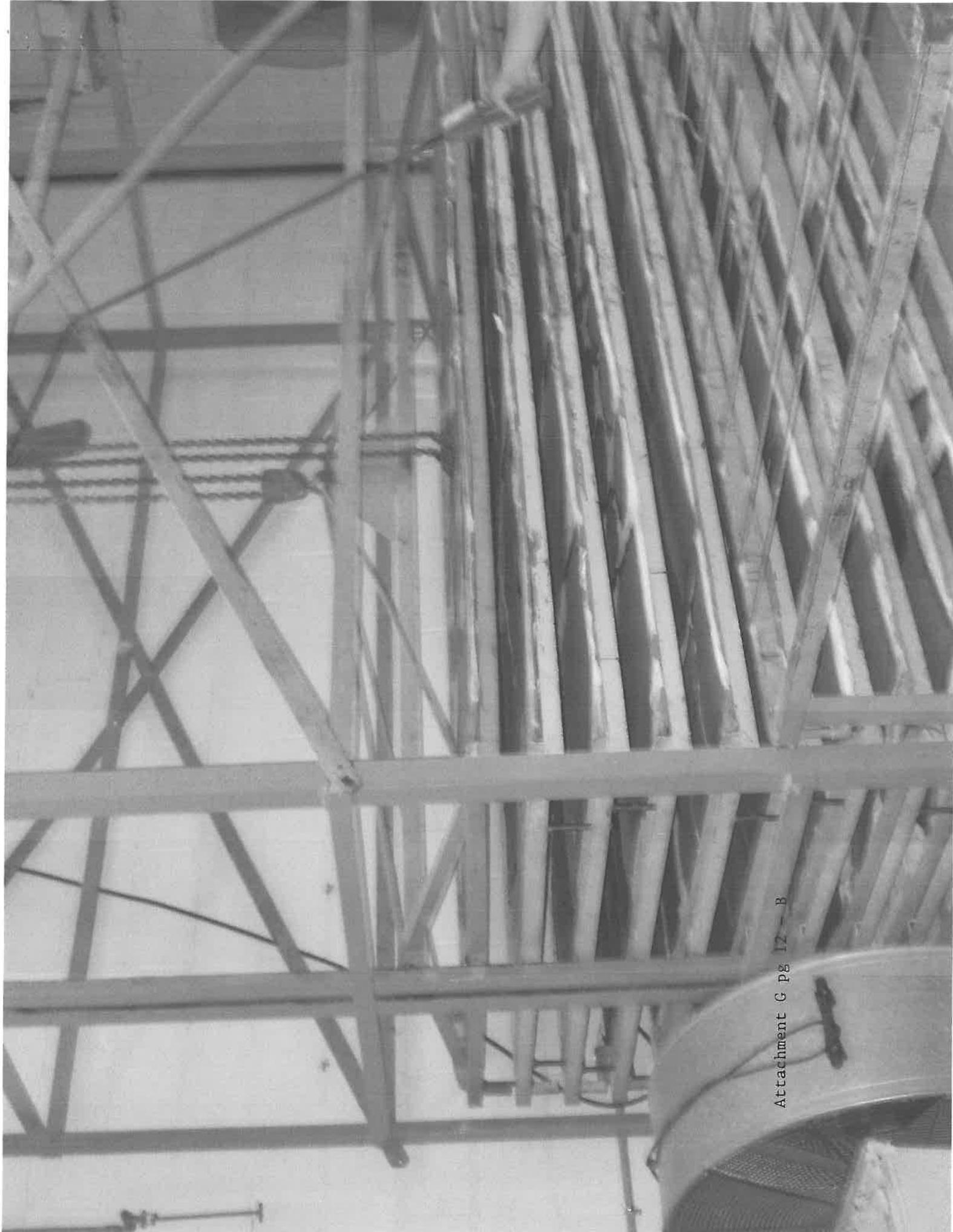
Elevation 699 feet

PROCESS DESCRIPTION

Coated fabrics are received into facility. The fabric is placed on a cutting table and laid up in multiple layers. The pattern is laid on top and marked on the top layer of fabric. Following the pattern marking lines, the fabric is cut. The stack of cut pieces is then taken to the clicking machine and the top and bottom panels are clicked out. Once the clicking is complete, the silk screening procedure is performed and placed on a shelf to dry. Once the panels are dried, the manifold is installed, then the oral tube is installed in the same manner. The top and bottom panels are placed on the bed of the RF weld machine and sealed. Once the life preserver bladders are sealed, they are ready for testing. Once the bladders pass test, they are pulled to flatten out, cleaned and packed. During the cleaning process, toluene is used to remove excess silk screen ink. The bladders are then serialized and lot numbers applied. The bladders are then packed in the boxes to ship.

Attachment G pg 12 - A





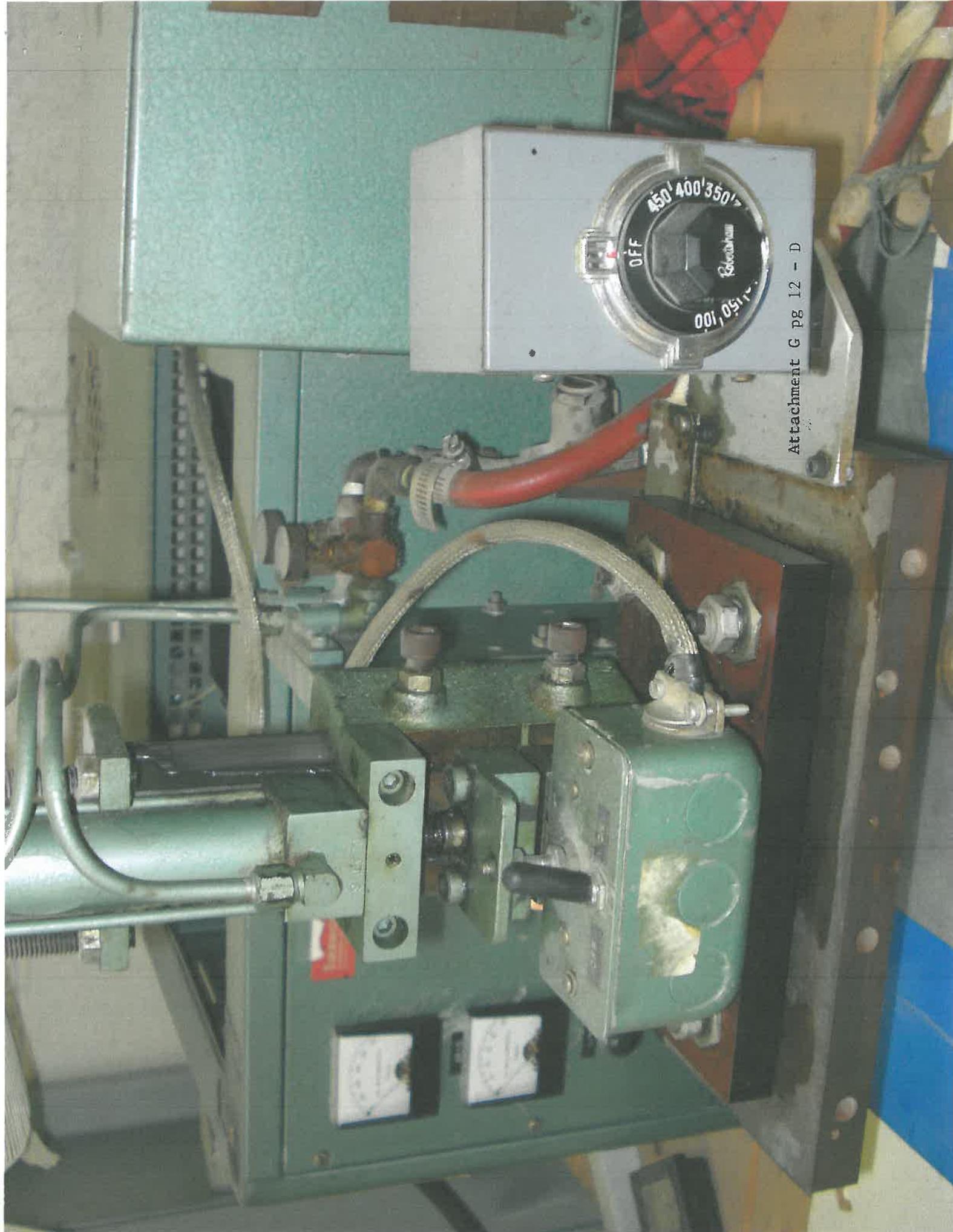
Attachment G pg 12 - B

Control panel of a teal machine with various gauges and switches:

- Pressure Gauge
- Flow Gauge
- Flow Meter
- Flow Controller
- Flow Switch
- Flow Valve
- Flow Stop
- Flow Start
- Flow Reset
- Flow Lock
- Flow Release
- Flow Hold
- Flow Stop/Start
- Flow Stop/Release
- Flow Stop/Reset
- Flow Stop/Lock
- Flow Stop/Release/Lock
- Flow Stop/Release/Reset/Lock

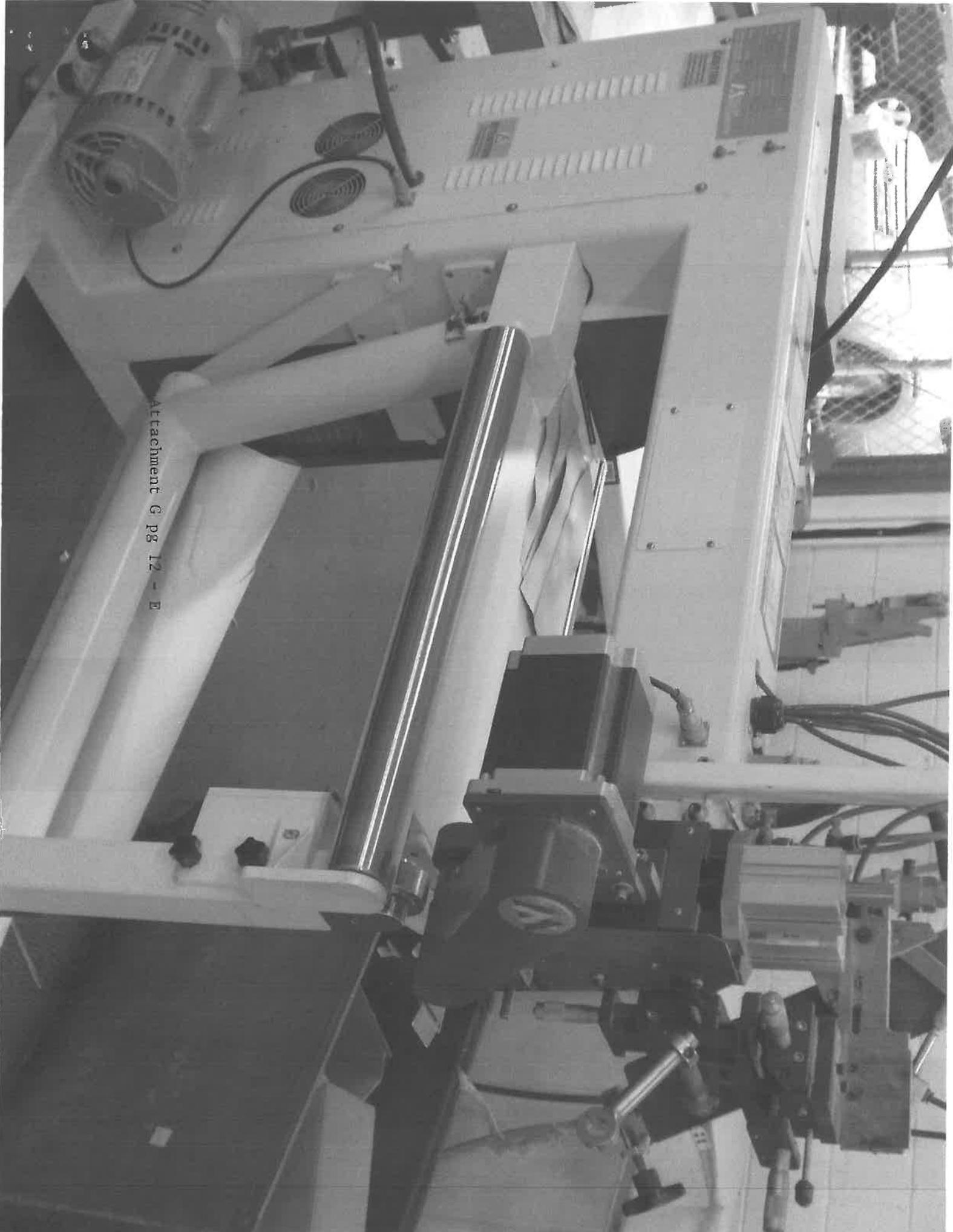
Large teal machine housing with safety and operational labels:

- REGULAR BLADDERS: ORAL TUBE & MANIFOLD VERTICAL - |**
Belt pack: Oral Tube & Manifold horizontal
- ▲ DANGER**
Crush hazard.
Keep hands clear
of moving parts.
Lockout/tagout
before servicing.
- ▲ DANGER**
HIGH VOLTAGE



Attachment G pg 12 - D

Attachment G pg 12 - E





Material Safety Data Sheet

WHMIS (Pictograms)  	WHMIS (Classification) B2 - Flammable Liquid D2B - Materials Causing Other Toxic Effects, Toxic Material	Protective Clothing   
--	---	---

NFPA Hazard Class		HMIS Hazard Class	
Health	2	Hazardous	2
Flammability	3	Flashpoint below 100 F	3
Reactivity	0	Stable	0
Specific hazards		Personal Protective Equipment	Splash Goggles, Gloves, Apron, Vapor Respirator

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name : TOLUENE

Product type : Suncor Product

MSDS Number : SEP000000082

Material number : 100151, 100067

CAS-No. : 108-88-3

Synonyms : Toluol, Methylbenzene, Phenylmethane

Intended Use : Coatings: Solvent for lacquers and paints, Petrochemical industry: Fuel additive. Industrial applications: Solvent. Manufacture of chemicals.

Manufacturer : Suncor Energy Inc.
2489 North Sheridan Way
Mississauga, Ontario Canada
L5K 1A8

EMERGENCY CONTACT INFORMATION

Sarnia Refinery (519) 337-2301 (24-hr)
Canutec(613) 996-8888

SECTION 3: COMPOSITION INFORMATION / INGREDIENTS

Component	CAS-No.	Concentration
TOLUENE	108-88-3	99.7000 - 100.0000 %
BENZENE	71-43-2	< 0.0300 %
Sulphur based on mass/mass	7704-34-9	< 0.0001 %

SECTION 4: HAZARD IDENTIFICATION

Potential Health Effects

Version 1.4
Revision Date 04/29/2011
Print Date 08/26/2011

Marque de commerce de Suncor Énergie Inc. – Trademark



Material Safety Data Sheet

- Eyes** : Causes eye irritation.
- Skin** : Causes skin irritation.
May cause irritation, drying and blistering.
The product may be absorbed through the skin.
- Inhalation** : May cause nose, throat, and lung irritation.
Major effects of exposure
Dizziness
Headache
Nausea
Loss of balance
Lack of coordination
Unconsciousness
respiratory failure and death.
- Ingestion** : Harmful or fatal if swallowed.
Aspiration hazard if swallowed - can enter lungs and cause damage.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
- Chronic Exposure** : Repeated or prolonged exposure to the substance can produce target organ damage.
Prolonged overexposures can cause brain, liver, kidney effects/damage.
- Primary Routes of Entry** : Inhalation
Eye contact
Skin Absorption
Skin contact
Ingestion
- Target Organs** : Central nervous system
Eyes
Skin
Upper respiratory tract
Kidney
Liver
Mucous membranes
- Carcinogenic Effects** :
- Reproductive toxicity** : ACGIH A4 - Not Classifiable as a Human Carcinogen IARC Group 3 - Not Classifiable as to Human Carcinogenicity
Pregnancy; may cause mental and/or growth retardation in children of female solvent abusers (sniffers). In rats, prolonged breathing of 3000 ppm did not cause birth defects (not teratogenic); fetal toxicity at 1500 ppm; no effect at 750 ppm. Avoid prolonged and repeated breathing of high

Version 1.4

2 / 12

Revision Date 04/29/2011

Print Date 08/26/2011

TM/MC Marque de commerce de Suncor Énergie Inc. – Trademark.



Material Safety Data Sheet

concentrations of toluene.

SECTION 4 - FIRST AID MEASURES

- Eye contact** : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.
- Skin contact** : In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash contaminated clothing before re-use.
Thoroughly clean shoes before re-use.
Seek medical advice.
- Inhalation** : Remove to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
In case of shortness of breath, give oxygen.
Seek medical advice.
- Ingestion** : Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.
Loosen tight clothing such as collar, tie, belt or waistband.
If accidentally swallowed obtain immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

- Flash point** : 4 °C (39 °F)
Test type: closed cup
Method: Tagliabue
- Flash point** : 4 °C (39 °F)
Test type: open cup
Method: Tagliabue
- Autoignition temperature** : 536 °C (997 °F)
- Lower explosion limit** : 1 %(V)
- Upper explosion limit** : 7 %(V)
- Flammability** : Flammable. Vapors can accumulate and travel to distant ignition sources and flash back. Risk of fire or explosion exists if static charge accumulates during transfer or flow of product. Containers may explode or rupture if exposed to heat Forms explosive mixtures with air and oxidizing agents.

Version 1.4

Revision Date 04/29/2011

Print Date 08/26/2011

Marque de commerce de Suncor Énergie Inc. - Trademark



Material Safety Data Sheet

Flammability in Presence of : Extremely flammable in presence of open flames sparks Flammable in presence of heat shock Slightly flammable in presence of oxidizing materials

Explosibility in Presence of : Explosive in presence of oxidizing materials

Fire fighting information

Suitable extinguishing media : Extinguishing media - small fires, Dry chemical, Carbon dioxide (CO2), Extinguishing media - large fires, Water spray, fog, Alcohol-resistant foam, Cool containers / tanks with water spray.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus when fire fighting in confined space. Wear structural fire fighters protective clothing.

SECTION 12: ACCIDENTAL RELEASE MEASURES

Personal precautions : Ensure adequate ventilation. Wear proper protective equipment as specified in the protective equipment section. Remove all sources of ignition.

Methods for cleaning up : Soak up with inert absorbent material. Scrape or gather material and place in a suitable container for disposal. Clean-up methods - large spillage Ensure adequate ventilation. Wear proper protective equipment as specified in the protective equipment section. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses. Protect against water. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Prevent entry into basements or confined areas. Ensure product is not present at a concentration level above the TLV. Check TLV on MSDS or consult local authorities.



Additional advice : Clean-up methods - small spillage
In Canada, advise the Ministry of the Environment.
: For dispersion properties, refer to Section 9, Solubility.

SECTION 7: HANDLING AND STORAGE

Handling Precautions

Handling : Keep away from open flames, hot surfaces and sources of ignition.
Ensure all equipment is electrically grounded before beginning transfer operations.
Do not ingest.
Do not breathe vapors, mist or gas.
Wear suitable protective equipment.
In case of insufficient ventilation, wear suitable respiratory equipment.
If ingested, seek medical advice immediately and show the container or the label.
Avoid prolonged contact with eyes, skin and clothing.

Storage

Further information on storage conditions : Store in a place accessible by authorized persons only.
Store in a cool, well ventilated area away from incompatible materials.
Keep containers tightly closed and sealed until ready for use.
Keep away from heat and sources of ignition.

Advice on mixed storage

: Reactive with:
Oxidizing agents
Acids

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.
Ventilation is dependant on work conditions; local ventilation is required.
Ensure that eyewash station and safety shower are proximal to the work-station location.
Use explosion-proof ventilation equipment.

Eye protection : Wear monogoggles or safety glasses when handling the product.
If liquid handled, wear goggles and face shield.

Hand protection : Gloves recommended to protect against contact with product.
The following materials are acceptable:

195



Material Safety Data Sheet

polyvinyl alcohol
Nitrile rubber
Neoprene
Viton (R)

- Skin and body protection** : Wear as appropriate:
Flame retardant protective clothing
Boots
If contact is unavoidable, wear chemical resistant clothing.
- Respiratory protection** : Concentration in air determines protection needed.
Half-mask air purifying respirator with organic vapor cartridges is acceptable to 10 times the exposure limit.
Full-face air purifying respirator with organic vapor cartridges is acceptable to 50 times the exposure limit.
Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures above 50 times the exposure limit.
If exposure is above IDLH (immediately dangerous to life & health) or there is the possibility of an uncontrolled release or exposure levels are unknown then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA.

Legislated occupational threshold limits

Chemical	Code	Limit Type	Value	Equivalent Value	
TOLUENE	108-88-3	CAD AB OEL	TWA	50 ppm	188 mg/m3
		ACGIH	TWA	20 ppm	
		NIOSH	REL	100 ppm	375 mg/m3
		NIOSH	STEL	150 ppm	
		OSHA Z2	TWA	200 ppm	560 mg/m3
		OSHA Z2	Ceiling	300 ppm	
		OSHA Z2	MAX. CONC	500 ppm	
		OEL (QUE)	TWA	50 ppm	188 mg/m3
		CAD BC OEL	TWA	20 ppm	
		CAD ON OEL	TWA	20 ppm	3.2 mg/m3
		CAD AB OEL	TWA	1 ppm	
		CAD AB OEL	STEL	5 ppm	16 mg/m3
CAD ON OEL	TWA	0.5 ppm			
CAD ON OEL	STEL	2.5 ppm	0.5 ppm		
ACGIH	TWA	0.5 ppm			
ACGIH	STEL	2.5 ppm	0.1 ppm		
NIOSH	REL	0.1 ppm			
NIOSH	STEL	1 ppm	10 ppm		
OSHA Z2	TWA	10 ppm			
OSHA Z2	Ceiling	25 ppm	50 ppm		
OSHA Z2	MAX. CONC	50 ppm			
OSHA	TWA	1 ppm	5 ppm		
OSHA	STEL	5 ppm			
OSHA	OSHA_ACT	0.5 ppm	3 mg/m3		
OEL (QUE)	TWA	1 ppm			

Remarks Exposure must be minimized.

Handwritten initials/signature



Material Safety Data Sheet

Sulphur based on mass/mass
 Note: State/Provincial, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local authorities for further information.
 Other information

OEL (QUE) 5 ppm 15.5 mg/m3
 Remarks Exposure must be minimized.
 7704-34-9 CAD AB OEL TWA 10 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Colour : colourless
- Odour : sweet pleasant characteristic
- Odour Threshold : 1 ppm
- Physical state : liquid
- Molecular Weight : 92.14 g/mol
- Melting point/range : -95 °C (-139 °F)
- Boiling point/boiling range : 110 °C (230 °F)
- Evaporation rate : 2 compared to Butyl Acetate
- Volatility : 100 % (V/V)
- Vapour pressure : 3.5 kPa at 20 °C (68 °F)
- Specific gravity : 0.87
Note: Water = 1
- Solubility in other solvents : Note: Easily soluble in, diethyl ether, acetone, Partially soluble in, cold water, hot water
- Viscosity, dynamic : >= 0.45 mPa.s at 50 °C (122 °F)
<= 0.61 mPa.s at 20 °C (68 °F)
- Relative vapour density : 3
Note: Air = 1

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid : Incompatible with strong acids and oxidizing agents.

Version 1.4

Revision Date 04/29/2011

Print Date 08/26/2011

TM/ME Marque de commerce de Suncor Énergie Inc. - Trademark

Handwritten mark



Material Safety Data Sheet

Hazardous decomposition products : Carbon monoxide and asphyxiants on combustion.

Section 11: Toxicological Information

- Acute oral toxicity**
- : LD50 rat
Dose: 636 mg/kg
Test substance: Toluene
 - LD 50 Rat
Dose: 930 mg/kg
Test substance: Benzene
 - LD 50 Mouse
Dose: 4,700 mg/kg
Test substance: Benzene
 - LD 50 Rat
Dose: > 8,437 mg/kg
Test substance: Sulfur
- Acute dermal toxicity**
- : LD50 rabbit
Dose: 14,100 mg/kg
Test substance: Toluene
 - LD 50
Dose: > 9,400 mg/kg
Test substance: Benzene
- Acute inhalation toxicity**
- : LC50 mouse
Exposure time: 24 h
Dose: 400 ppm
Test substance: Toluene
 - LC50 rat
Exposure time: 4 h
Dose: 49 mg/l
Test substance: Toluene
 - LC 50 Rat
Exposure time: 7 h
Dose: 10000 ppm
Test substance: Benzene
 - LC 50 Mouse
Exposure time: 1 h
Dose: 9980 ppm
Test substance: Benzene
 - LC 50 Rat
Exposure time: 7 h



Material Safety Data Sheet

Dose: 30 mg/l
Test substance: Benzene

LC 50 Mammal
Exposure time: 4 h
Dose: 1.660 mg/l
Test substance: Sulfur

Section 9: Ecological Information

Products of biodegradation : Possibly hazardous short/long term degradation products are to be expected.
The products of degradation are less toxic than the product itself.

Acute and prolonged toxicity to fish : LC50
Species: Trout family (Salmonidae)
Dose: 24 mg/l
Exposure time: 96 h

LC50
Species: Bluegill (Lepomis macrochirus)
Dose: 24 mg/l
Exposure time: 96 h

LC50
Species: Sunfish (Lepomis)
Dose: 61 mg/l
Exposure time: 1 h

LC50
Species: Fathead minnow (Pimephales promelas)
Dose: 44 mg/l
Exposure time: 96 h

LC50
Species: Brine Shrimp (Artemia sp.)
Dose: 33 mg/l
Exposure time: 24 h

Section 10: Disposal Considerations

Advice on disposal : In Canada, follow federal, provincial and local regulations.
RCRA hazardous waste.
Do not flush to drain /storm sewer.

Section 11: Transport Information

Version 1.4

Revision Date 04/29/2011

Print Date 08/26/2011

TMAC Marque de commerce de Suncor Énergie Inc. - Trademark

9
21

DOT Proper shipping name : TOLUENE
 UN-Number : 1294
 Class : 3
 Packing group : II

TDG Proper shipping name : TOLUENE
 UN-Number : 1294
 Class : 3
 Packing group : II

IATA UN Number : 1294
 Description of the goods : TOLUENE
 Class : 3
 Packaging group : II
 ADR/RID-Labels : 3
 Packing instruction (cargo aircraft) : 307
 Packing instruction (passenger aircraft) : 305
 Packing instruction (passenger aircraft) : Y305

IMDG Substance No. : UN 1294
 Description of the goods : TOLUENE
 Class : 3
 Packaging group : II
 ADR/RID-Labels : 3
 EmS Number : F-E

SECTION 9 REGULATORY INFORMATION

HMIS Hazard Class									
Health	2								
Flammability	3								
Physical Hazard	0								
Personal Protective Equipment	Splash Goggles, Gloves, Apron, Vapor Respirator								
NFPA Hazard Rating	<table border="1"> <tr> <td>Flammability</td> <td>3</td> </tr> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Special</td> <td></td> </tr> </table>	Flammability	3	Health	2	Reactivity	0	Special	
Flammability	3								
Health	2								
Reactivity	0								
Special									

WHMIS Classification : B2 - Flammable Liquid, D2B - Materials Causing Other Toxic Effects, Toxic Material

WHMIS (Pictograms)



Revision Date 04/28/2011

Print Date 08/26/2011

Marque de commerce de Suncor Énergie Inc. - Trademark



Material Safety Data Sheet

TOLUENE

NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE INFORMATION HEREIN PROVIDED. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information referred to herein are beyond the control of Suncor, Suncor expressly disclaims any and all liability as to any results obtained or arising from any use of the product or such information. No statement made herein shall be considered as a permission or recommendation for the use of any product in a manner that may infringe existing patents. As soon as reasonably practicable after Suncor is aware of any inaccurate information, Suncor will update the MSDS. However, Suncor cannot guarantee the accuracy, currency or completeness of the information at all times.

Attachment H-1 pg 24

Version 1.4

12/12
Revision Date 04/29/2011

Print Date 08/26/2011

TM/MC Marque de commerce de Suncor Énergie Inc. – Trademark...

12

500011



Product Name: METHYL ETHYL KETONE
Revision Date: 12 May 2010
Page 1 of 11

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: METHYL ETHYL KETONE
Product Description: Ketone

Intended Use: Solvent

COMPANY IDENTIFICATION

Supplier: EXXONMOBIL CHEMICAL COMPANY
P.O. BOX 3272
HOUSTON, TX. 77253-3272 USA

24 Hour Health Emergency (800) 726-2015
Transportation Emergency Phone (800) 424-9300 or (703) 527-3887 CHEMTREC
Product Technical Information (281) 870-6000/Health & Medical (281) 870-8884
Supplier General Contact (281) 870-6000

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
METHYL ETHYL KETONE	78-93-3	100%

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 3 HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL PHYSICAL / CHEMICAL EFFECTS

Flammable. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited.

POTENTIAL HEALTH EFFECTS

Irritating to eyes. If swallowed, may be aspirated and cause lung damage. May cause central nervous system depression.

Target Organs: Eye |

NFPA Hazard ID:	Health: 2	Flammability: 3	Reactivity: 0
HMIS Hazard ID:	Health: 1	Flammability: 3	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

1



Product Name: METHYL ETHYL KETONE
Revision Date: 12 May 2010
Page 2 of 11

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

INGESTION

Seek immediate medical attention. Do not induce vomiting.

NOTE TO PHYSICIAN

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Highly flammable. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: -4C (25F) [ASTM D-56]

Flammable Limits (Approximate volume % in air): LEL: 1.8 UEL: 11.5

Autoignition Temperature: >450°C (842°F)

SECTION 6 ACCIDENTAL RELEASE MEASURES



Product Name: METHYL ETHYL KETONE

Revision Date: 12 May 2010

Page 4 of 11

closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Outside or detached storage preferred. Storage containers should be grounded and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge.

Storage Temperature: [Ambient]

Storage Pressure: [Ambient]

Suitable Containers/Packing: Tank Trucks; Drums; Barges; Tank Cars

Suitable Materials and Coatings (Chemical Compatibility): Carbon Steel; Stainless Steel; Polyester; Teflon; Butyl Rubber

Unsuitable Materials and Coatings: Ethylene-propylene-diene monomer (EPDM); Polyacrylonitrile; Polypropylene; Polystyrene; Polyvinyl Alcohol; PVC; Polyethylene; Natural Rubber

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Source	Form	Limit / Standard			NOTE	Source
METHYL ETHYL KETONE		TWA	590 mg/m3	200 ppm	N/A	OSHA Z1
METHYL ETHYL KETONE		STEL	300 ppm		N/A	ACGIH
METHYL ETHYL KETONE		TWA	200 ppm		N/A	ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.



Product Name: METHYL ETHYL KETONE
Revision Date: 12 May 2010
Page 5 of 11

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Eye Protection: Chemical goggles are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid
Form: Clear
Color: Colorless
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 20 C): 0.805
Flash Point [Method]: -4C (25F) [ASTM D-56]
Flammable Limits (Approximate volume % in air): LEL: 1.8 UEL: 11.5
Autoignition Temperature: >450°C (842°F)
Boiling Point / Range: 79C (173F) - 81C (178F)
Vapor Density (Air = 1): > 1 at 101 kPa
Vapor Pressure: 9.3 kPa (69.75 mm Hg) at 20 C | 22.3 kPa (167.25 mm Hg) at 38C
 | 43.6 kPa (327 mm Hg) at 55C
Evaporation Rate (n-butyl acetate = 1): 6
pH: N/D
Log Pow (n-Octanol/Water Partition Coefficient): N/D
Solubility in Water: Appreciable
Viscosity: [N/D at 40 °C] | 0.52 cSt (0.52 mm²/sec) at 25C
Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION



Product Name: METHYL ETHYL KETONE
Revision Date: 12 May 2010
 Page 6 of 11

Freezing Point: -86°C (-123°F)
Melting Point: N/D
Molecular Weight: 72
Hygroscopic: Yes
Coefficient of Thermal Expansion: 0.00129
Decomposition Temperature: N/D

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity: Data available.	Minimally Toxic. Based on test data for the material.
Irritation: Data available.	May be irritating to the respiratory tract. The effects are reversible. Based on test data for the material.
Ingestion	
Toxicity: Data available.	Minimally Toxic. Based on test data for the material.
Skin	
Toxicity: Data available.	Minimally Toxic. Based on test data for the material.
Irritation: Data available.	May dry the skin leading to discomfort and dermatitis. Based on test data for the material.
Eye	
Irritation: Data available.	Irritating and will injure eye tissue. Based on test data for the material.

CHRONIC/OTHER EFFECTS

For the product itself:

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

METHYL ETHYL KETONE (MEK): Simultaneous exposure to Methyl Ethyl Ketone (MEK) or Methyl Isobutyl Ketone (MIBK) and n-Hexane can potentiate the risk of adverse effects from n-Hexane on the peripheral nervous system.

6

Product Name: METHYL ETHYL KETONE
Revision Date: 12 May 2010
Page 7 of 11

Additional information is available by request.

The following ingredients are cited on the lists below: None.

-REGULATORY LISTS SEARCHED-		
1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material – Not expected to be harmful to aquatic organisms.

MOBILITY

Material – Expected to remain in water or migrate through soil.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material – Expected to be readily biodegradable.

Hydrolysis:

Material – Transformation due to hydrolysis not expected to be significant.

Photolysis:

Material – Expected to degrade at a moderate rate in water when exposed to sunlight.

Atmospheric Oxidation:

Material – Transformation due to atmospheric oxidation not expected to be significant.

OTHER ECOLOGICAL INFORMATION

VOC (EPA Method 24): 6.718 lbs/gal

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

RCRA Information: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Potential RCRA characteristics: IGNITABILITY. TCLP (METHYL ETHYL KETONE)

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and



Product Name: METHYL ETHYL KETONE
Revision Date: 12 May 2010
Page 8 of 11

can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT)

Proper Shipping Name: ETHYL METHYL KETONE
Hazard Class & Division: 3
ID Number: 1193
Packing Group: II
Product RQ: 5000 LBS - METHYL ETHYL KETONE
ERG Number: 127
Label(s): 3
Transport Document Name: UN1193, ETHYL METHYL KETONE, 3, PG II

LAND (TDG)

Proper Shipping Name: ETHYL METHYL KETONE
Hazard Class & Division: 3
UN Number: 1193
Packing Group: II

SEA (IMDG)

Proper Shipping Name: ETHYL METHYL KETONE
Hazard Class & Division: 3
EMS Number: F-E, S-D
UN Number: 1193
Packing Group: II
Label(s): 3
Transport Document Name: UN1193, ETHYL METHYL KETONE (Methyl Ethyl Ketone), 3, PG II, (-4°C c.c.)

AIR (IATA)

Proper Shipping Name: ETHYL METHYL KETONE
Hazard Class & Division: 3
UN Number: 1193
Packing Group: II
Label(s) / Mark(s): 3
Transport Document Name: UN1193, ETHYL METHYL KETONE, 3, PG II

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, ENCS, KECI, PICCS, TSCA

EPCRA: This material contains no extremely hazardous substances.

8



Product Name: METHYL ETHYL KETONE
 Revision Date: 12 May 2010
 Page 9 of 11

CERCLA:

Chemical Name	CAS Number	Typical Value	Component RQ	Product RQ
METHYL ETHYL KETONE	78-93-3	100%	5000 LBS	5000 LBS

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Fire. Immediate Health.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
METHYL ETHYL KETONE	78-93-3	1, 4, 13, 16, 17, 18, 19

—REGULATORY LISTS SEARCHED—

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16	OTHER INFORMATION
N/D = Not determined, N/A = Not applicable	

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Changes:

- Section 10 Stability and Reactivity - Header was modified.
- Section 13: Disposal Recommendations - Note was modified.
- Section 08: Personal Protection was modified.
- Section 07: Handling and Storage - Handling was modified.
- Section 07: Handling and Storage - Storage Phrases was modified.
- Section 07: Loading/Unloading Temperature C(F) was modified.
- Section 07: Transport Temperature C(F) was modified.
- Section 07: Transport Pressure kPa was modified.
- Section 07: Storage Temperature C(F) was modified.
- Section 07: Storage Pressure kPa was modified.
- Section 07: Suitable Materials and Coatings - Header was modified.
- Section 06: Accidental Release - Spill Management - Water was modified.
- Section 09: Relative Density - Header was modified.
- Section 09: Viscosity was modified.
- Section 14: Transport Document Name was modified.
- Section 14: Label(s) - Header was modified.
- Section 14: Transport Document Name was modified.



Product Name: METHYL ETHYL KETONE

Revision Date: 12 May 2010

Page 10 of 11

Section 14: Product RQ was modified.
 Section 14: Transport Document Name was modified.
 Section 15: CERCLA Table was modified.
 Section 15: List Citation Table - Header was modified.
 Section 15: National Chemical Inventory Listing was modified.
 Section 16: Precautions was modified.
 Section 16: Water Spill was modified.
 Section 08: Exposure limits/standards was modified.
 Section 09: Oxidizing Properties was modified.
 Section 08: OEL Table - Notation Column - Header was modified.
 Section 08: Exposure Limit Values - Header was modified.
 Section 01: Product Code - Header was deleted.

PRECAUTIONARY LABEL TEXT:

Contains: METHYL ETHYL KETONE

WARNING!

HEALTH HAZARDS

Irritating to eyes. If swallowed, may be aspirated and cause lung damage.

Target Organs: Eye |

PHYSICAL HAZARDS

Flammable.

PRECAUTIONS

Avoid contact with skin. Avoid contact with eyes. Prevent exposure to ignition sources, for example use non-sparking tools and explosion-proof equipment. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation.

FIRST AID

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Eye: Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Oral: Seek immediate medical attention. Do not induce vomiting.

Skin: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

FIRE FIGHTING MEDIA

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

SPILL/LEAK

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. **Large Spills:** Use clean non-sparking tools to collect absorbed material. Recover by pumping or with suitable absorbent.

10



Product Name: METHYL ETHYL KETONE
Revision Date: 12 May 2010
 Page 11 of 11

Water Spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. Seek the advice of a specialist before using dispersants.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

Internal Use Only

MHC: 2A, 0, 0, 2, 1, 2

DGN: 4400034HUS (1004484)

Copyright 2002 Exxon Mobil Corporation, All rights reserved

11

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration (ppmv or mg/m ³) ⁷
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
1E	Attic Fan	1S	Assy-Area	N/A	N/A	N/A	N/A	VOC's	1.00	1 ton	1.25	1.225 T/Yr.	Gas	MB	N/A

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

- ¹ Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.
- ² Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (ie., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).
- ³ List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.
- ⁴ Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
- ⁵ Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
- ⁶ Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).
- ⁷ Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

Attachment K

FUGITIVE EMISSIONS DATA SUMMARY SHEET

The FUGITIVE EMISSIONS SUMMARY SHEET provides a summation of fugitive emissions. Fugitive emissions are those emissions which could not reasonably pass through a stack, chimney, vent or other functionally equivalent opening. Note that uncaptured process emissions are not typically considered to be fugitive, and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET.

Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions).

APPLICATION FORMS CHECKLIST - FUGITIVE EMISSIONS
1.) Will there be haul road activities? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, then complete the HAUL ROAD EMISSIONS UNIT DATA SHEET.
2.) Will there be Storage Piles? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete Table 1 of the NONMETALLIC MINERALS PROCESSING EMISSIONS UNIT DATA SHEET.
3.) Will there be Liquid Loading/Unloading Operations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the BULK LIQUID TRANSFER OPERATIONS EMISSIONS UNIT DATA SHEET.
4.) Will there be emissions of air pollutants from Wastewater Treatment Evaporation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.
5.) Will there be Equipment Leaks (e.g. leaks from pumps, compressors, in-line process valves, pressure relief devices, open-ended valves, sampling connections, flanges, agitators, cooling towers, etc.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the LEAK SOURCE DATA SHEET section of the CHEMICAL PROCESSES EMISSIONS UNIT DATA SHEET.
6.) Will there be General Clean-up VOC Operations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.
7.) Will there be any other activities that generate fugitive emissions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET or the most appropriate form.
If you answered "NO" to all of the items above, it is not necessary to complete the following table, "Fugitive Emissions Summary."

13A. REGULATED AIR POLLUTANT EMISSIONS:

⇒ FOR A NEW FACILITY, PLEASE PROVIDE PLANT WIDE EMISSIONS BASED ON THE POTENTIAL TO EMIT (PTE) FOR THE FOLLOWING AIR POLLUTANTS INCLUDING ALL PROCESSES.

⇒ FOR AN EXISTING FACILITY, PLEASE PROVIDE THE PROPOSED CHANGE IN EMISSIONS BASED ON THE PTE OF ALL PROCESS CHANGES FOR THE FOLLOWING AIR POLLUTANTS.

PTE FOR A GIVEN POLLUTANT IS TYPICALLY BEFORE AIR POLLUTION CONTROL DEVICES AND IS COLLECTED BASED ON THE MAXIMUM DESIGN CAPACITY OF PROCESS EQUIPMENT.

POLLUTANT	HOURLY PTE (LB/HR)	YEARLY PTE (TON/YR) (HOURLY PTE MULTIPLIED BY 8760 HR/YR) DIVIDED BY 2000 LB/TON
PM		
PM ₁₀		
VOCs		
CO		
NO _x		
SO ₂		
Pb		
HAPs (AGGREGATE AMOUNT)		
TAPs (INDIVIDUALLY)*		
OTHER (INDIVIDUALLY)*		

* ATTACH ADDITIONAL PAGES AS NEEDED

13B. PLEASE PROVIDE ALL SUPPORTING CALCULATIONS AS ATTACHMENT E.

CALCULATE AN HOURLY AND YEARLY PTE OF EACH PROCESS EMISSION POINT (SHOWN IN YOUR DETAILED PROCESS FLOW DIAGRAM) FOR ALL AIR POLLUTANTS LISTED ABOVE INCLUDING INDIVIDUAL HAP'S (LISTED IN SECTION 112[b] OF THE 1990 CAAA), TAP'S (LISTED IN 45CSR27), AND OTHER AIR POLLUTANTS (E.G. POLLUTANTS LISTED IN TABLE 45-13A OF 45CSR13, MINERAL ACIDS PER 45CSR7, ETC.).

14. CERTIFICATION OF DATA

I, _____ (TYPE NAME) ATTEST THAT ALL THE REPRESENTATIONS CONTAINED IN THIS APPLICATION, OR APPENDED HERETO, ARE TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE BASED ON INFORMATION AND BELIEF AFTER REASONABLE INQUIRY, AND THAT I AM A RESPONSIBLE OFFICIAL** (PRESIDENT, VICE PRESIDENT, SECRETARY OR TREASURER, GENERAL PARTNER OR SOLE PROPRIETOR) OF THE APPLICANT.

SIGNATURE OF RESPONSIBLE OFFICIAL: _____

TITLE: PRESIDENT DATE: 1/2, 2015

** THE DEFINITION OF THE PHRASE 'RESPONSIBLE OFFICIAL' CAN BE FOUND AT 45CSR13, SECTION 2.23.

NOTE: PLEASE CHECK ENCLOSED ATTACHMENTS:

ATTACHMENT A ATTACHMENT B ATTACHMENT C ATTACHMENT D ATTACHMENT E

RECORDS ON ALL CHANGES ARE REQUIRED TO BE KEPT AND MAINTAINED ON-SITE FOR TWO (2) YEARS.

THE PERMIT DETERMINATION FORM WITH THE INSTRUCTIONS CAN BE FOUND ON DAQ'S PERMITTING SECTION WEB SITE:

www.dep.wv.gov/daq

AIR QUALITY PERMIT NOTICE

Notice of Application

Notice is given that R.P.R. Industries, Inc. has applied to the West Virginia department of Environmental Protection, Division of Air Quality, for a construction permit at a rubber products manufacturing facility located at 100 Johnson Street, Grantsville, Calhoun County, WV. Longitude 81.096382N, Latitude 38.920691N.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be VOC's – 1.225 TPY.

Startup of operation is planned to begin on or about the 15th day of January, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SWE Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this 8th day of December, 2015.

By: R.P.R. Industries, Inc.

Jim Hughes

General Supervisor

P.O. Box 220

Grantsville, WV 26147

AFFIDAVIT OF PUBLICATION

STATE OF WEST VIRGINIA
COUNTY OF CALHOUN, to-wit:

I, Helen R. Morris, being first duly sworn upon my oath, do depose and say that I am publisher of *The Calhoun Chronicle/Grantsville News*, a Democratic newspaper published for at least fifty weeks during the calendar year in Grantsville, Calhoun County, West Virginia, that such newspaper is a newspaper of "general circulation" as that term is defined in Article 3, Chapter 59 of the Code of West Virginia, 1931, as amended, within the publication area, or areas, of said municipality and county and adjoining counties of Calhoun; that such newspaper averages in length four or more pages, exclusive of any cover, per issue; that such newspaper is circulated to the general public at a definite price or consideration; that such newspaper is a newspaper to which the general public resorts for passing events of a political nature and for current happenings, announcements, miscellaneous reading matters, advertisements, and other notices; that the annexed notice of

NOTICE OF AIR QUALITY PERMIT

was duly published in said newspaper once a week for 1 successive week(s) (Class II), commencing with the issue of the 10th of December, 2015, and ending with the issue of the 10th of December, 2015.

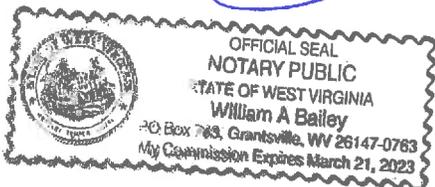
The cost of publishing said annexed notice was \$33.95

Signed, Helen R. Morris

Taken, subscribed and sworn before me in my said county on this 11th day of December, 2015.

My commission expires: March 21, 2023

William A. Bailey
Notary Public of Calhoun County, West Virginia



AIR QUALITY PERMIT NOTICE

Notice of Application

Notice is given that R.P.R. Industries, Inc., has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a construction permit at a rubber products manufacturing facility located at 100 Johnson Street, Grantsville, Calhoun County, W.Va., Longitude 81.096382N, Latitude 38.920691N.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be VOC's - 1.225 TPY.

Startup of operation is planned to begin on or about the 15th day of January, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this 8th day of December, 2015.

By: R.P.R. Industries, Inc.
Jim Hughes
General Supervisor
P.O. Box 220
Grantsville, WV 26147

Class I Legal - 1tc/12/10

**Attachment R
AUTHORITY OF CORPORATION
OR OTHER BUSINESS ENTITY (DOMESTIC OR FOREIGN)**

TO: The West Virginia Department of Environmental Protection,
Division of Air Quality

DATE: December 08, 2015

ATTN.: Director

Corporation's / other business entity's Federal Employer I.D. Number 55-056-9081

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which is used in the conduct of an incorporated business or other business entity.

Further, the corporation or the business entity certifies as follows:

(1) John M. Zanonni (is/are) the authorized representative(s) and in that capacity may represent the interest of the corporation or the business entity and may obligate and legally bind the corporation or the business entity.

(2) The corporation or the business entity is authorized to do business in the State of West Virginia.

(3) If the corporation or the business entity changes its authorized representative(s), the corporation or the business entity shall notify the Director of the West Virginia Department of Environmental Protection, Division of Air Quality, immediately upon such change.



President or Other Authorized Officer
(Vice President, Secretary, Treasurer or other
official in charge of a principal business function of
the corporation or the business entity)

(If not the President, then the corporation or the business entity must submit certified minutes or bylaws stating legal authority of other authorized officer to bind the corporation or the business entity).

Secretary

R.P.R. Industries, Inc.

Name of Corporation or business entity