



**Toxic Substance Reduction Plan Summary
For
Isopropyl alcohol, Toluene and Methyl ethyl ketone**

MSB Plastics Manufacturing (Plant 2)
10 Disco Drive,
Toronto, ON M9W 1L7

Dec. 19, 2016	New plan for Isopropyl alcohol
Dec. 13, 2017	Updated plan for Isopropyl alcohol (State of Intent, Objectives and Targets, Uses and Options to Be Implemented); New plan for Toluene and Methyl ethyl ketone

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1 INTRODUCTION

This Toxic Substance Reduction Plan has been prepared in accordance with Section 8(2) of Toxic Reduction Plan Act and satisfies the minimum plan summary requirement stipulated in Section 24 of Ontario Regulation 455/09. This plan summary accurately reflects the content of the plans for the prescribed substances described as follows.

1.1 Substance information

Substance name and Chemical Abstracts Service Registry number	Isopropyl alcohol (67-63-0)
	Toluene (108-88-3)
	Methyl ethyl ketone (78-93-3)

1.2 Facility Information

Facility Name	MSB Plastic Manufacturing (Plant 2)
Facility Address	10 Disco Dr., Toronto, ON M9W 1L7
UTM Coordinates	Front door: Easting 613406, Northing 4839751, 17T
Number of Full Time Employees in 2015	233
NPRI Identification Number:	4943
Two Digit NAICS Code:	31-33 - Manufacturing
Four Digit NAICS Code:	3261 - Plastics Product Manufacturing
Six Digit NAICS Code:	326193 - Motor vehicle plastic parts manufacturing
Public Contact	Colin S. Dhillon
	Dir. Of Industrial Design & Marketing
	2 Norelco Dr., Toronto, ON M9L 2X6
	(416) 246-1782
Parent Company Information	
Company Name	ABC Group Inc.
Company Address:	2 Norelco Dr., Toronto, ON M9L 2X6
Percentage of Ownership:	100%

2 STATEMENT OF INTENT

As required by Section 4(1) of Toxic Reduction Act, a plan must include either a statement of the facility's intent to reduce the use and/or creation of the toxic substance at the facility, or the reasons for not including this statement.

ABC Group is committed to preventing and mitigating its adverse impacts on the environment. MSB Plastics Manufacturing (Plant 2) (referred to as the facility) has an Environmental Management System that is certified to ISO 14001. Environmental issues, objectives and targets are parts of Key Operational Indicators monitored and reviewed through regular management meetings and communicated with employees. We understand toxic reduction will be an ongoing effort and will continually team up with our suppliers to eliminate or reduce the use/release of the toxic substances from the paint line, wherever feasible.

The purpose of the plan is to calculate and to identify options that would potentially reduce the use of the aforementioned substances.

MSB Plastics Manufacturing (Plant 2) intends to reduce its use of Isopropyl alcohol, Toluene and Methyl ethyl ketone.

3 OBJECTIVES, TARGETS AND TIMELINES

MSB Plastics Manufacturing (Plant 2) intends to reduce the use of

- Isopropyl alcohol in the painting process by 20% over a 5-year period; specifically,
 - o Reduce the use of IPA in the part cleaning by 20% over a 5-year period;
 - o Reduce the use of IPA in the purge solvent by 20% over a 5-year period.
- Toluene in the painting process by 20% over a 5-year period;
- Methyl ethyl ketone in the painting process by 20% over a 5-year period.

4 USE/CREATION OF THE TOXIC SUBSTANCE

Toxic Substance	CAS No.	Description of Substance Use / Creation*
Isopropyl alcohol	67-63-0	1) Primarily used as a formulation component in a solvent for plastic part cleaning purpose prior to the painting application; 2) Limited percentage used as a formulation component in the purge solvent for painting system purging purpose
Toluene	108-88-3	Used as a formulation component in a solvent for painting system purging purpose
Methyl ethyl ketone	78-93-3	Used as a formulation component in a solvent for painting system purging purpose

*No toxic substances are created.

5 OPTIONS TO BE IMPLEMENTED AND ESTIMATED REDUCTIONS

See Table 5.1, 5.2 and 5.3 in next page the options to be implemented and estimated reductions for Isopropyl alcohol, Toluene and Methyl ethyl ketone, respectively.

Table 5.1 Options to be Implemented and Estimated Reductions for Isopropyl alcohol

Estimated Reductions for Isopropyl alcohol												
Options to Be Implemented for Isopropyl alcohol	Use		Creation tonnes	Contained in Products tonnes	Offsite Recycling tonnes	Onsite Destructed kgly	Released				Disposal (kgly)	
	tonnes	%					Air (tonnes)	Air (%)	Water (tonnes)	Land (tonnes)	Onsite (tonnes)	Offsite (tonnes)
Category: Equipment or process modification - Modified stripping / cleaning devices												
Using air blowing rather than solvent cleaning most of time and only applying IPA to clean parts as needed and required	0.43	16.5	0	0	0	0	0.43	16.6	0	0	0	0
Category: Good operator practice or training - Changed production schedule to minimize equipment and feedstock changeovers												
Improve the painting schedule to reduce the frequency of the color change/system purging	0.09	3.5	0	0	0	0	NA	NA	0	0	0	NA
Total Estimated Reduction	0.52	20	0	0	0	0	0.43	16.6	0	0	0	NA

Table 5.2 Options to be Implemented and Estimated Reductions for Toluene

Estimated Reductions for Toluene												
Options to Be Implemented for Toluene	Use		Creation tonnes	Contained in Products tonnes	Offsite Recycling tonnes	Onsite Destructed kgly	Released				Disposal (kgly)	
	tonnes	%					Air (tonnes)	Air (%)	Water (tonnes)	Land (tonnes)	Onsite (tonnes)	Offsite (tonnes)
Category: Good operator practice or training - Changed production schedule to minimize equipment and feedstock changeovers												
Improve the painting schedule to reduce the frequency of the color change/system purging	0.55	20	0	0	0	0	NA	NA	0	0	0	NA

Table 5.3 Options to be Implemented and Estimated Reductions for Methyl ethyl ketone

Estimated Reductions for Methyl ethyl ketone												
Options to Be Implemented for Methyl ethyl ketone	Use		Creation tonnes	Contained in Products tonnes	Offsite Recycling tonnes	Onsite Destructed kgly	Released				Disposal (kgly)	
	tonnes	%					Air (tonnes)	Air (%)	Water (tonnes)	Land (tonnes)	Onsite (tonnes)	Offsite (tonnes)
Category: Good operator practice or training - Changed production schedule to minimize equipment and feedstock changeovers												
Improve the painting schedule to reduce the frequency of the color change/system purging	0.67	20	0	0	0	0	NA	NA	0	0	0	NA

CERTIFICATIONS OF PLAN

Certification by Highest Ranking Employee

As of December 13, 2017, I, Paul Karim, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with their contents, and to my knowledge the plan is factually accurate and comply with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

Isopropyl alcohol (CAS# 67-63-0)

Toluene (CAS# 108-88-3)

Methyl ethyl ketone (CAS# 78-93-3)



Paul Karim

General Manager

MSB Plastics Manufacturing, a division of ABC Group Inc.

Certification by Toxic Substance Reduction Planner

As of December 13, 2017, I, Hua (Laurie) Li certify that I am familiar with the processes at MSB Plastics Manufacturing (Plant 2) that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the *Toxics Reduction Act, 2009* that are set out in the toxic substance reduction plan referred to below for the toxic substance and that the plan comply with that Act and Ontario Regulation 455/09 (General) made under that Act.

Isopropyl alcohol (CAS# 67-63-0)

Toluene (CAS# 108-88-3)

Methyl ethyl ketone (CAS# 78-93-3)



Hua (Laurie) Li

Senior Environmental Specialist

ABC Group Inc.

Planner license number: TSRP0248