# **SAFETY DATA SHEET**

F93G105A

# Section 1. Identification

Product name	<ul> <li>MIL-DTL-53039C, Type I Aliphatic Polyurethane, Single Component CARC Green 383, 34094</li> </ul>
Product code	: F93G105A
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of t	he substance or mixture and uses advised against
Not applicable.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year
Product Information	: US / Canada: Not Available
Telephone Number	Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (216) 566-2917 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 1</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 41% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 68% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 40. 1%</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Date of issue/Date	of revision	: 7/4/2018	Date of previous issue	: 9/9/2017	Version	:5	1/18
F93G105A	MIL-DTL-53039C, Type I A Green 383, 34094	liphatic Polyurethan	e, Single Component CARC		SHW-85-	NA-GHS-US	

# Section 2. Hazards identification

	Causes serious eye irritation.
	Causes skin irritation.
	May cause an allergic skin reaction.
	May cause cancer.
	May cause respiratory irritation.
	May cause drowsiness or dizziness.
	Causes damage to organs through prolonged or repeated exposure. (respiratory tract)
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. Please refer to the SDS for additional information. Keep out of reach of children. Do not
Hazards not otherwise	<ul><li>transfer contents to other containers for storage.</li><li>None known.</li></ul>

# Hazards not otherwi

# Section 3. Composition/information on ingredients

#### Substance/mixture

Other means of identification

- : Mixture
- : Not available.

#### CAS number/other identifiers

Ingredient name	% by weight	CAS number
Hexamethylene Diisocyanate Polymer	≥10 - ≤25	28182-81-2
Methyl Isoamyl Ketone	≥10 - ≤25	110-12-3
Calcined Diatomaceous Earth	≥10 - ≤25	68855-54-9
Polyester	≤10	54797-78-3
Crystalline Silica, respirable powder	≤10	14808-60-7
Cobalt Chromite Green Spinel	≤10	68187-49-5
Chromium Oxide	≤10	1308-38-9
1,2,4-Trimethylbenzene	≤5	95-63-6
Light Aromatic Hydrocarbons	≤5	64742-95-6
Magnesium Ferrite	≤3	12068-86-9
n-Butyl Acetate	≤3	123-86-4
1,3,5-Trimethylbenzene	≤3	108-67-8
Cristobalite, respirable powder	≤3	14464-46-1
Cumene	<1	98-82-8
Xylene	<1	1330-20-7
1,2,3-Trimethylbenzene	<1	526-73-8
1-[2-(Dimethylamino)ethyl]-4-methylpiperazine	≤0.3	104-19-8
Unsaturated Fatty Acids	≤0.3	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

Date of issue/Date	of revision	: 7/4/2018	Date of previous issue	: 9/9/2017	Version	:5	3/18
F93G105A	MIL-DTL-53039C, Type I A Green 383, 34094	liphatic Polyurethan	e, Single Component CARC		SHW-85-	NA-GHS-US	

# Section 4. First aid measures

or waistband.

Most important symptoms/	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Green 383, 34094

F93G105A

# Section 5. Fire-fighting measures

MIL-DTL-53039C, Type I Aliphatic Polyurethane, Single Component CARC

Extinguishing media					
Suitable extinguishing media	: Use dry chem	nical, CO₂, water spray	r (fog) or foam.		
Unsuitable extinguishing media	: Do not use w	ater jet.			
Specific hazards arising from the chemical	fire or if heate of a subseque ground. Vap	quid and vapor. Runot ed, a pressure increase ent explosion. The vap ors may accumulate in source of ignition and	e will occur and the o por/gas is heavier th low or confined area	container may burst, v an air and will spread	vith the risk along the
Hazardous thermal decomposition products	: Decomposition carbon dioxid carbon mono nitrogen oxide metal oxide/o	xide es	e the following mate	rials:	
Date of issue/Date of revision	: 7/4/2018	Date of previous issue	: 9/9/2017	Version : 5	4/18

SHW-85-NA-GHS-US

# Section 5. Fire-fighting measures

Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

Green 383, 34094

Protective measures	: Put on appropriate personal protective equipment (see Secti- history of skin sensitization problems should not be employed this product is used. Avoid exposure - obtain special instruc- handle until all safety precautions have been read and under or on skin or clothing. Do not breathe vapor or mist. Do not adequate ventilation. Wear appropriate respirator when ven not enter storage areas and confined spaces unless adequa original container or an approved alternative made from a co- tightly closed when not in use. Store and use away from hea any other ignition source. Use explosion-proof electrical (ve material handling) equipment. Use only non-sparking tools. measures against electrostatic discharges. Empty container and can be hazardous. Do not reuse container.	uld not be employed in any process in which otain special instructions before use. Do not een read and understood. Do not get in eyes por or mist. Do not ingest. Use only with espirator when ventilation is inadequate. Do ices unless adequately ventilated. Keep in the ive made from a compatible material, kept use away from heat, sparks, open flame or proof electrical (ventilating, lighting and non-sparking tools. Take precautionary s. Empty containers retain product residue		
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas we handled, stored and processed. Workers should wash hand drinking and smoking. Remove contaminated clothing and pentering eating areas. See also Section 8 for additional informeasures.	Is and face before eat protective equipment b	0,	
Date of issue/Date of revision F93G105A MIL-DTL-53039C, 1	: 7/4/2018 Date of previous issue : 9/9/2017 Type I Aliphatic Polyurethane, Single Component CARC	Version : 5 SHW-85-NA-GHS-US	5/18	

# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in
	unlabeled containers. Use appropriate containment to avoid environmental
	contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits (OSHA United States)** 

Green 383, 34094

ngredient name	Exposure limits
Hexamethylene Diisocyanate Polymer Methyl Isoamyl Ketone	None. ACGIH TLV (United States, 3/2017). TWA: 20 ppm 8 hours. TWA: 93 mg/m <sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 234 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2016). TWA: 50 ppm 10 hours. TWA: 240 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours. TWA: 475 mg/m <sup>3</sup> 8 hours.
Calcined Diatomaceous Earth	NIOSH REL (United States, 10/2016). TWA: 6 mg/m <sup>3</sup> 10 hours.
Polyester Crystalline Silica, respirable powder	None. OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form Respirable TWA: 10 mg/m <sup>3</sup> / (%SiO2+2) 8 hours. Form Respirable OSHA PEL (United States, 6/2016). TWA: 50 µg/m <sup>3</sup> 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2017). TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m <sup>3</sup> 10 hours. Form: respirable dust
Cobalt Chromite Green Spinel	ACGIH TLV (United States, 3/2017). TWA: 0.02 mg/m <sup>3</sup> , (as Co) 8 hours. NIOSH REL (United States, 10/2016). TWA: 0.5 mg/m <sup>3</sup> , (as CR) 8 hours. OSHA PEL (United States, 6/2016). TWA: 0.5 mg/m <sup>3</sup> , (as Cr) 8 hours.
Chromium Oxide	ACGIH TLV (United States, 3/2017). TWA: 0.5 mg/m <sup>3</sup> , (measured as Cr) 8 hours NIOSH REL (United States, 10/2016). TWA: 0.5 mg/m <sup>3</sup> , (as CR) 8 hours. OSHA PEL (United States, 6/2016). TWA: 0.5 mg/m <sup>3</sup> , (as Cr) 8 hours.
1,2,4-Trimethylbenzene	ACGIH TLV (United States, 3/2017). TWA: 25 ppm 8 hours. TWA: 123 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2016).

		TWA: 25 ppm 10 hours. TWA: 125 mg/m <sup>3</sup> 10 hours.
Light Aromatic Hydrocarbons Magnesium Ferrite		None. ACGIH TLV (United States, 3/2017). TWA: 1 mg/m <sup>3</sup> , (as Fe) 8 hours.
		NIOSH REL (United States, 10/2016).
n-Butyl Acetate		TWA: 1 mg/m <sup>3</sup> , (as Fe) 10 hours. NIOSH REL (United States, 10/2016).
		TWA: 150 ppm 10 hours.
		TWA: 710 mg/m <sup>3</sup> 10 hours. STEL: 200 ppm 15 minutes.
		STEL: 950 mg/m <sup>3</sup> 15 minutes.
		OSHA PEL (United States, 6/2016).
		TWA: 150 ppm 8 hours. TWA: 710 mg/m³ 8 hours.
		ACGIH TLV (United States, 3/2017).
		STEL: 150 ppm 15 minutes.
		TWA: 50 ppm 8 hours.
1,3,5-Trimethylbenzene		ACGIH TLV (United States, 3/2017).
		TWA: 25 ppm 8 hours. TWA: 123 mg/m <sup>3</sup> 8 hours.
		NIOSH REL (United States, 10/2016).
		TWA: 25 ppm 10 hours.
Cristakalita raasirakla saudar		TWA: 125 mg/m <sup>3</sup> 10 hours.
Cristobalite, respirable powder		OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / 2 x (%SiO2+5) 8 hours.
		Form: Respirable
		TWA: 10 mg/m³ / 2 x (%SiO2+2) 8 hours.
		Form: Respirable TWA: 30 mg/m <sup>3</sup> / 2 x (%SiO2+2) 8 hours.
		Form: Total dust
		OSHA PEL (United States, 6/2016).
		TWA: 50 µg/m³ 8 hours. Form: Respirable dust
		ACGIH TLV (United States, 3/2017).
		TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
		Respirable fraction
		NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m <sup>3</sup> 10 hours. Form: respirable
		dust
Cumene		ACGIH TLV (United States, 3/2017).
		TWA: 50 ppm 8 hours.
		NIOSH REL (United States, 10/2016).
		Absorbed through skin. TWA: 50 ppm 10 hours.
		TWA: 245 mg/m <sup>3</sup> 10 hours.
		OSHA PEL (United States, 6/2016).
		Absorbed through skin. TWA: 50 ppm 8 hours.
		TWA: 245 mg/m <sup>3</sup> 8 hours.
Xylene		ACGIH TLV (United States, 3/2017).
		TWA: 100 ppm 8 hours. TWA: 434 mg/m <sup>3</sup> 8 hours.
		STEL: 150 ppm 15 minutes.
		STEL: 651 mg/m <sup>3</sup> 15 minutes.
		OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours.
		TWA: 100 ppm 8 hours.
1,2,3-Trimethylbenzene		ACGIH TLV (United States, 3/2017).
		TWA: 25 ppm 8 hours.
		TWA: 123 mg/m³ 8 hours.
Date of issue/Date of revision : 7/4/2018	Date of previous issue	: 9/9/2017 Version : 5 7/18

F93G105A

	NIOSH REL (United States, 10/2016).
	TWA: 25 ppm 10 hours.
	TWA: 125 mg/m <sup>3</sup> 10 hours.
1-[2-(Dimethylamino)ethyl]-4-methylpiperazine	None.
Unsaturated Fatty Acids	None.

#### **Occupational exposure limits (Canada)**

ngredient name	Exposure limits
Methyl Isoamyl Ketone	<ul> <li>CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 234 mg/m<sup>3</sup> 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2017). TWA: 50 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 7/2015). TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes.</li> <li>CA Quebec Provincial (Canada, 1/2014). TWAEV: 50 ppm 8 hours. TWAEV: 234 mg/m<sup>3</sup> 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.</li> </ul>
Crystalline Silica, respirable powder	<ul> <li>CA British Columbia Provincial (Canada, 6/2017).</li> <li>TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>CA Quebec Provincial (Canada, 1/2014).</li> <li>TWAEV: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable dust.</li> <li>CA Ontario Provincial (Canada, 7/2015).</li> <li>TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction.</li> <li>CA Alberta Provincial (Canada, 4/2009).</li> <li>8 hrs OEL: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: respirable fraction</li> </ul>
1,2,4-Trimethylbenzene	<ul> <li>CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 123 mg/m<sup>3</sup> 8 hours. 8 hrs OEL: 25 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2017). TWA: 25 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 1/2014). TWAEV: 25 ppm 8 hours. TWAEV: 123 mg/m<sup>3</sup> 8 hours.</li> <li>CA Ontario Provincial (Canada, 7/2015). TWA: 25 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2015). TWA: 25 ppm 8 hours.</li> <li>STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.</li> </ul>
n-Butyl Acetate	<b>CA Alberta Provincial (Canada, 4/2009).</b> 15 min OEL: 200 ppm 15 minutes. 15 min OEL: 950 mg/m <sup>3</sup> 15 minutes. 8 hrs OEL: 150 ppm 8 hours.

	8 hrs OEL: 713 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada,
	6/2017).
	TWA: 20 ppm 8 hours.
	CA Ontario Provincial (Canada, 7/2015).
	TWA: 150 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 150 ppm 8 hours.
	TWAEV: 713 mg/m <sup>3</sup> 8 hours.
	STEV: 200 ppm 15 minutes.
	STEV: 950 mg/m <sup>3</sup> 15 minutes.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
1,3,5-Trimethylbenzene	CA Alberta Provincial (Canada, 4/2009).
	8 hrs OEL: 123 mg/m <sup>3</sup> 8 hours.
	8 hrs OEL: 25 ppm 8 hours.
	CA British Columbia Provincial (Canada,
	6/2017).
	TWA: 25 ppm 8 hours.
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 25 ppm 8 hours.
	TWAEV: 123 mg/m <sup>3</sup> 8 hours.
	CA Ontario Provincial (Canada, 7/2015).
	TWA: 25 ppm 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 30 ppm 15 minutes.
	TWA: 25 ppm 8 hours.
Cristobalite, respirable powder	CA British Columbia Provincial (Canada,
	6/2017).
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
	Respirable
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 0.05 mg/m <sup>3</sup> 8 hours. Form:
	Respirable dust.
	CA Ontario Provincial (Canada, 7/2015).
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction.
	CA Alberta Provincial (Canada, 4/2009).
	8 hrs OEL: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate
	CA Saskatchewan Provincial (Canada,
	7/2013).
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: respirable
	fraction

#### **Occupational exposure limits (Mexico)**

Ingredient	name			Exposure lim	iits	
Methyl Isoa	amyl Ketone			NOM-010-STF	PS-2014 (Mexico, 4/2016).	
Crystalline Silica, respirable powder		TWA: 0.025 r	<b>PS-2014 (Mexico, 4/2016).</b> mg/m³ 8 hours. Form:			
1,2,4-Trimethylbenzene		Respirable fraction NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 25 ppm 8 hours.				
n-Butyl Ace	etate				PS-2014 (Mexico, 4/2016).	
) Date of issue/D	Date of revision	: 7/4/2018	Date of previous issue	: 9/9/2017	Version : 5	9/18
F93G105A MIL-DTL-53039C, Type I Aliphatic Polyurethane, Single Component CARC Green 383, 34094			SHW-85-NA-GHS-US			

1,3,5-Trimethylbenzene Cristobalite, respirable powder	STEL: 200 ppm 15 minutes. <b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 25 ppm 8 hours. <b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual	protection	measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.

Date of issue/Date	e of revision	: 7/4/2018	Date of previous issue	:9/9/2017	Version : 5	10/18
F93G105A	MIL-DTL-53039C, Type I A Green 383, 34094	liphatic Polyuretha	ane, Single Component CARC		SHW-85-NA-GHS-US	

# Section 9. Physical and chemical properties

Boiling point/boiling range	: 123°C (253.4°F)
Flash point	: Closed cup: 36°C (96.8°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 1 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 0.7% Upper: 8.2%
Vapor pressure	: 1.3 kPa (10 mm Hg) [at 20°C]
Vapor density	: 3.9 [Air = 1]
Relative density	: 1.28
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.205 cm <sup>2</sup> /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 12.955 kJ/g

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

# Information on toxicological effects

Green 383, 34094

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene Diisocyanate Polymer	LC50 Inhalation Vapor	Rat	18500 mg/m <sup>3</sup>	1 hours
Methyl Isoamyl Ketone	LD50 Oral	Rat	3200 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5 g/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
,	LD50 Oral	Rat	10768 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5000 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
te of issue/Date of revision	: 7/4/2018 Date of previous	issue : 9/9/20	17 Vers	sion :5

Xylene	LC50 Inhalation Gas. LD50 Oral		Rat Rat		5000 ppm 4300 mg/kg	4 hours -
rritation/Corrosion						
Product/ingredient name	Result	Speci	es	Score	Exposure	<b>Observation</b>
Hexamethylene Diisocyanate Polymer	Eyes - Moderate irritant	Rabbi	t	-	100 milligrams	-
	Skin - Moderate irritant	Rabbi	t	-	500 milligrams	-
Methyl Isoamyl Ketone	Eyes - Mild irritant	Rabbi	t	-	24 hours 2 microliters	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbi	t	-	24 hours 24 microliters	
n-Butyl Acetate	Eyes - Moderate irritant Rabl		t	-	100 milligrams	-
	Skin - Moderate irritant	Rabbi	t	-	24 hours s milligrams	500 -
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit	t	-	24 hours t milligrams	500 -
	Skin - Moderate irritant Rat		t	-	24 hours 2 milligrams	20 -
Cumene	Eyes - Mild irritant	Rabbi	t	-	24 hours s milligrams	500 -
	Eyes - Mild irritant	Rabbi	t	-	86 milligra	
	Skin - Mild irritant	Rabbi	t	-	24 hours 2 milligrams	
	Skin - Moderate irritant	Rabbi	t	-	24 hours 2 milligrams	
Xylene	Eyes - Mild irritant Eyes - Severe irritant	Rabbit Rabbit	-	-	87 milligra 24 hours 5 milligrams	5 -
	Skin - Mild irritant	Rat		-	milligrams 8 hours 60 microliters	) -
	Skin - Moderate irritant	Rabbi	t	-	24 hours s milligrams	500 -
	Skin - Moderate irritant	Rabbi	t	-	100 Perce	
1-[2-(Dimethylamino)ethyl] -4-methylpiperazine	Eyes - Severe irritant	Rabbi	-	-	24 hours 7 Microgram	750 -
	Skin - Severe irritant	Rabbi	t	-	24 hours s milligrams	5 -

#### **Sensitization**

Not available.

**Mutagenicity** 

#### Not available.

**Carcinogenicity** 

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Calcined Diatomaceous Earth	-	3	-
Crystalline Silica, respirable powder	-	1	Known to be a human carcinogen.
Cobalt Chromite Green	-	2B	Reasonably anticipated to be a human carcinogen.
Chromium Oxide	-	3	-
Cristobalite, respirable powder	-	1	Known to be a human carcinogen.
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.
Xylene	-	3	-

Date of issue/Date	of revision	: 7/4/2018	Date of previous issue	: 9/9/2017	Version	:5	12/18
F93G105A	MIL-DTL-53039C, Type I Alij Green 383, 34094	phatic Polyurethan	e, Single Component CARC		SHW-85-I	NA-GHS-US	

# Section 11. Toxicological information

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hexamethylene Diisocyanate Polymer	Category 3	Not applicable.	Respiratory tract irritation
Methyl Isoamyl Ketone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Light Aromatic Hydrocarbons	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
n-Butyl Acetate	Category 3	Not applicable.	Narcotic effects
1,3,5-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Cumene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory tract irritation
1,2,3-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methyl Isoamyl Ketone	Category 2	Not determined	Not determined
Crystalline Silica, respirable powder	Category 1	Inhalation	Not determined
Light Aromatic Hydrocarbons	Category 2	Not determined	Not determined
Cristobalite, respirable powder	Category 1	Inhalation	respiratory tract
Cumene	Category 2	Not determined	Not determined
Xylene	Category 2	Not determined	Not determined

#### Aspiration hazard

Name	Result
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1

#### Information on the likely : Not available. routes of exposure

# Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Skin contact : Causes skin irritation. May cause an allergic skin reaction. Ingestion : Can cause central nervous system (CNS) depression.

Date of issue/Date	of revision	: 7/4/2018	Date of previous issue	: 9/9/2017	Version	:5	13/18
F93G105A	MIL-DTL-53039C, Type I A Green 383, 34094	liphatic Polyuretha	ne, Single Component CARC		SHW-85-	NA-GHS-US	

Eye contact	Adverse symptoms may include the following:
	pain or irritation watering
	redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue
	dizziness/vertigo
	unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation
	redness
Ingestion	: No specific data.
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Not available.	
General	: Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of to	xicity

## Acute toxicity estimates

Route	ATE value
Oral Inhalation (vapors)	8655.3 mg/kg 24.89 mg/l

# Section 12. Ecological information

### Toxicity

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure	
Methyl Isoamyl Ketone	Acute LC50 159000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours	
	Acute LC50 7720 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours	
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
1,3,5-Trimethylbenzene	Acute LC50 13000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours	
	Acute LC50 12520 µg/l Fresh water	Fish - Carassius auratus	96 hours	
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days	
Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours	
	Acute EC50 7400 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours	
	Acute EC50 10600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours	
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours	

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Light Aromatic Hydrocarbons	-	-	Readily
n-Butyl Acetate	-	-	Readily
Xylene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene Diisocyanate Polymer	-	367.7	low
1,2,4-Trimethylbenzene	-	243	low
Light Aromatic Hydrocarbons 1,3,5-Trimethylbenzene	-	10 to 2500 161	high Iow
Cumene	-	35.48	low
Xylene	-	8.1 to 25.9	low
1,2,3-Trimethylbenzene	-	194.98	low

#### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere

Date of issue/Date	of revision	: 7/4/2018	Date of previous issue	:9/9/2017	Version : 5	15/18
F93G105A MIL-DTL-53039C, Type I Aliphatic Polyurethane, Single Component CARC Green 383, 34094			SHW-85-NA-GHS-US			

## Section 13. Disposal considerations

inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3	3
Packing group	III	Ш	Ш	Ш	
Environmental hazards	No.	No.	No.	No.	No.
Additional information		Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).	-		<u>Emergency</u> <u>schedules</u> F-E, S E
	<u>ERG No.</u> 128	ERG No. 128	ERG No. 128		
Special precautior Fransport in bulk a O Annex II of MAR	ns for user : Multi-r consid mode suitab prior to respor unload substa	I nodal shipping descr ler container sizes. T of transport (sea, air ly for that mode of tra o shipment, and com nsibility of the person ling dangerous good ances and on all actio	iptions are provided he presence of a sh , etc.), does not indi ansport. All packagin pliance with the app offering the product s must be trained of	hipping description cate that the produ- ng must be review blicable regulations t for transport. Peo n all of the risks de	uct is packaged ed for suitability s is the sole ople loading and
he IBC Code					

## Section 15. Regulatory information

Ship type

**Pollution category** 

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

: Not available.

: Not available.

SARA 313

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 1	Calculation method

#### **History**

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Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use

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F93G105A MIL-DTL-53039C, Type I Aliphatic Polyurethane, Single Component CARC Green 383, 34094				SHW-85-NA-GHS-US		

# Section 16. Other information

of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.