

MATERIAL SAFETY DATA SHEET

# JOHN DEERE GREEN #JDMF9A

Version Number 1.0 Revision Date 09/21/2001 Page 1 of 6 Print Date 11/1/2011

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	JOHN DEERE GREEN #JDMF9A
Product code	:	CC10000748
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
1,6-Hexanediamine,	70624-18-9	1 - 5
N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-,		
polymer with 2,4,6-trichloro-1,3,5-triazine,		
reaction products with2		
Carbon black	1333-86-4	0.1 - 1
Titanium dioxide	13463-67-7	1 - 5

#### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating or crosslinking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure. See Sections 3 and 11 for special precautions.

#### POTENTIAL HEALTH EFFECTS

<b>Routes of Exposure:</b>	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eves.</li> </ul>
Skin	: Experience shows no unusual dermatitis hazard from routine handling.



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Medical Conditions	: None known.
Aggravated by Exposure:	
	4. FIRST AID MEASURES
T.1.1.1.1.	
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases or doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits	
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Autoignition temperature	: Not relevant
Suitable extinguishing media	: Carbon dioxide blanket, water spray, dry powder, foam.
Special Fire Fighting	: Fullface self-contained breathing apparatus (SCBA) used in positive
Procedures	pressure mode should be worn to prevent inhalation of airborne
	contaminants.
Unusual Fire/Explosion Hazards	: None
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 1 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE

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Handling		ake measures to prevent the nly in areas with appropriate		charge. Heat
Storage		eep containers dry and tight do not contamination. Keep in a		re absorption
8.1	EXPOSURE	CONTROLS / PERSONA	L PROTECTION	
Respiratory protection		o personal respiratory protect		required
				required.
Eye/Face Protection	: Sa	afety glasses with side-shield	ds.	
Hand protection	: P1	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: Sa	afety shoes.		
General Hygiene Considerations		andle in accordance with go /ash hands before breaks and		safety practice
Engineering measures		eat only in areas with appro opropriate exhaust ventilatio		. Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted Average (TWA):		ACGIH
	3.5 mg/m3	PEL:		OSHA Z1
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	9. PHYSIC	CAL AND CHEMICAL PR	ROPERTIES	
Form	: Solid	l Evar	poration rate : No	ot applicable.
Appearance	: Pelle	1		ot determined.
Color	: GRE		Bulk density : Not establish	
	. Van		•	ot applicable
Odor	: very			
	: Not c	letermined. Vap	or density : No	ot applicable
Odor Melting point/range Boiling Point:	: Not c : Not a	letermined. Vap applicable pH		ot applicable ot applicable
Odor Melting point/range	: Not c	letermined. Vap applicable pH		
Odor Melting point/range Boiling Point:	: Not c : Not a : Insol	letermined. Vap applicable pH	: No	
Odor Melting point/range Boiling Point:	: Not c : Not a : Insol 10. S	letermined. Vap applicable pH uble	: No	



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Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

#### **11. TOXICOLOGICAL INFORMATION**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
70624-18-9	1,6-Hexanediamine,	Highly Toxic	Refer to MSDS for Toxicity
	N,N'-bis(2,2,6,6-tetrameth		Data
	yl-4-piperidinyl)-,polymer		
	with		
	2,4,6-trichloro-1,3,5-triazi		
	ne, reaction products with2		
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system, heart
			or circulatory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

#### LC50 / LD50

This product contains the following components which in their pure form have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
70624-18-9	1,6-Hexanediamine,	LC50	112 mgm34H	rat
	N,N'-bis(2,2,6,6-tetrameth	Oral LD50	9,910 mg/kg	rat
	yl-4-piperidinyl)-,polymer			
	with			
	2,4,6-trichloro-1,3,5-triazi			
	ne, reaction products with2			
1333-86-4	Carbon black	Oral LD50	> 15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit

#### Carcinogenicity:

This product contains the following components which in their pure form have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	no	2B	no

IARC Carcinogen Classifications:



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1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

#### Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

	12. ECOLOGICAL INFORMATION
Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Additional advice	: No data available.
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste materia has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION
U.S. D.O.T. / CA T.D.G.	: Not regulated for transportation.



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ICAO/IATA	Not regulated for transportation.	
IMO / IMDG	Not regulated for transportation.	
	5. REGULATORY INFORMATION	
US Regulations:		
OSHA Status	Classified as hazardous	
TSCA Status	All components of this product are listed on the TSCA inverse exempt.	entory or are
California Proposition 65	This product does not contain a substance listed by Califor	mia Prop 65
Canadian Regulations:		
WHMIS Classification	D1A	
WHMIS Ingredient Disc	ure List	
CAS-No. 1333-86-4		
DSL	Listed.	
National Inventories:		
Australia AICS	Not Listed.	
China IECS	Not Listed.	
Europe EINECS	Not Listed.	
Japan ENCS	Not Listed.	
Korea KECI	Not Listed.	
Philippines PICCS	Not Listed.	
	16. OTHER INFORMATION	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.