

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/
UNDERTAKING**

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<u>Product identifier</u>	
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Product Name	Turf Line Winterizer 24-0-10 Fall Fertilizer
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<u>Other means of identification</u>	
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Synonyms	None
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<u>Recommended use of the chemical and restrictions on use</u>	
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Recommended Use	Fertilizer
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Uses advised against	No information available
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<u>Details of the supplier of the safety data sheet</u>	
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Supplier Name	Turf Line Fertilizer
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Supplier Address	PO Box 400 1225 Lehigh Station Road Henrietta NY 14467 US
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Supplier Phone Number	Phone:585-334-4574
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Supplier Email	turflin@rochester.rr.com
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<u>Emergency telephone number</u>	
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Company Emergency Phone Number	585-334-4574
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2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Multiple Colors

Physical state Granular Solid

Odor Organic

Precautionary Statements - Prevention	
None	
Precautionary Statements - Response	
None	
Precautionary Statements - Storage	
None	
Precautionary Statements - Disposal	
None	
<u>Hazards not otherwise classified (HNOC)</u>	
Not applicable	
<u>Unknown Toxicity</u>	
31.7 % of the mixture consists of ingredient(s) of unknown toxicity	
<u>Other information</u>	
May be harmful if swallowed Causes mild skin irritation Harmful to aquatic life with long lasting effects May cause slight eye irritation	
<u>Interactions with Other Chemicals</u>	
No information available.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
Urea	57-13-6	30 - 60	*
Biosolids (conforming to 40 CFR part 503)	308066-19-5	10 - 30	*
Potassium Chloride	7447-40-7	7 - 13	*
Iron	7439-89-6	3 - 7	*

Potassium magnesium sulfate (Mg2K2(SO4)3)	14977-37-8	3 - 7	*	
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Sulfur	7704-34-9	1 - 5	*	
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Manure	N/A208	0.1 - 1	*	
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Manganese oxide (MnO)	1344-43-0	0.1 - 1	*	
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Zinc	7440-66-6	0.1 - 1	*	
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*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
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Skin contact	Wash with soap and water.
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Inhalation	Remove to fresh air.
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Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
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Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

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Suitable Extinguishing Media
Dry chemical, CO2, water spray or regular foam. Dike fire-control water for later disposal.

Unsuitable extinguishing media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with eyes.

Environmental precautions

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

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Precautions for safe handling	
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Handling	Handle in accordance with good industrial hygiene and safety practice.
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Conditions for safe storage, including any incompatibilities	
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Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
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Incompatible Products	None known based on information supplied.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	
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Exposure Guidelines	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here
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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese oxide (MnO) 1344-43-0	TWA: 0.02 mg/m ³ Mn respirable particulate matter TWA: 0.1 mg/m ³ Mn inhalable particulate matter	(vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 500 mg/m ³ Mn TWA: 1 mg/m ³ Mn STEL: 3 mg/m ³ Mn
Zinc 7440-66-6	STEL: 10 mg/m ³ respirable fraction TWA: 2 mg/m ³ respirable fraction	TWA: 5 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ dust TWA: 5 mg/m ³ dust and fume STEL: 10 mg/m ³ fume

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems
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Individual protection measures, such as personal protective equipment

Eye/face protection	No special protective equipment required.
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Skin and body protection	No special protective equipment required.
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Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
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Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Granular, Solid
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Appearance	Multiple Colors
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Odor	Organic
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Color	No information available
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Odor Threshold	No information available
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<u>Property</u>	<u>Values</u>
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<u>Remarks</u>	<u>Method</u>
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pH	No data available
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None known

Melting / freezing point	No data available
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None known

Boiling point / boiling range	No data available
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None known

Flash Point	No data available
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None known

Evaporation Rate	No data available
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None known

Flammability (solid, gas)	No data available
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None known

Flammability Limit in Air		
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	Upper flammability limit	No data available		
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	Lower flammability limit	No data available		
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	Vapor pressure	No data available		
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			None known	
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	Vapor density	No data available		
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			None known	
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	Specific Gravity	No data available		
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			None known	
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	Water Solubility	Partially soluble		
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			None known	
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	Solubility in other solvents	No data available		
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			None known	
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Partition coefficient: n-octanol/ water	No data available

None known

Autoignition temperature	No data available

None known

Decomposition temperature	No data available

None known

Kinematic viscosity	No data available

None known

Dynamic viscosity	No data available

None known

Explosive properties	No data available
Oxidizing properties	No data available
<u>Other Information</u>	
Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

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Reactivity.		
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No data available.		
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Chemical stability Stable under recommended storage conditions.		
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Possibility of Hazardous Reactions None under normal processing.		
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Conditions to avoid None known based on information supplied.		
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Incompatible materials None known based on information supplied.		
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Hazardous Decomposition Products
None known based on information supplied.

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Urea 57-13-6	= 8471 mg/kg (Rat)	-	-
Potassium Chloride 7447-40-7	= 2600 mg/kg (Rat)	-	-
Iron 7439-89-6	= 984 mg/kg (Rat)	-	-
Sulfur 7704-34-9	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive toxicity No information available.

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Respiratory system. Skin.
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
4,120.00 mg/kg

12. ECOLOGICAL INFORMATION

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Ecotoxicity	
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Harmful to aquatic life with long lasting effects.	
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Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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Urea 57-13-6		96h LC50: 16200 - 18300 mg/L (Poecilia reticulata)	EC50 = 23914 mg/L 5 min	48h EC50: = 3910 mg/L 24h EC50: > 10000 mg/L
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Potassium Chloride 7447-40-7	72h EC50: = 2500 mg/L (Desmodosmus subspicatus)	96h LC50: = 1060 mg/L (Lepomis macrochirus) 96h LC50: 750 - 1020 mg/L (Pimephales promelas)		48h EC50: = 825 mg/L
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Iron 7439-89-6		96h LC50: = 13.6 mg/L (Morone saxatilis)		
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Sulfur 7704-34-9		96h LC50: = 866 mg/L (Brachydanio rerio) 96h LC50: < 14 mg/L (Lepomis macrochirus) 96h LC50: > 180 mg/L (Oncorhynchus mykiss)		
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Zinc 7440-66-6	96h EC50: 0.11 - 0.271 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.09 - 0.125 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 3.5 mg/L (Lepomis macrochirus) 96h LC50: = 7.8 mg/L (Cyprinus carpio) 96h LC50: = 0.24 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.59 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.41 mg/L (Oncorhynchus mykiss) 96h LC50: 0.211 - 0.269 mg/L (Pimephales promelas) 96h LC50: = 2.66 mg/L (Pimephales promelas) 96h LC50: = 30 mg/L (Cyprinus carpio) 96h LC50: = 0.45 mg/L (Cyprinus carpio) 96h LC50: 2.16 - 3.05 mg/L (Pimephales promelas)		48h EC50: 0.139 - 0.908 mg/L
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<u>Persistence and Degradability</u> No information available.				
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<u>Bioaccumulation</u>				
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Chemical name		Log Pow		
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Urea 57-13-6		-1.59		
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Other adverse effects No information available.	
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13. DISPOSAL CONSIDERATIONS	
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Waste treatment methods	
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Disposal methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
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Contaminated Packaging	Dispose of contents/containers in accordance with local regulations.
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California Hazardous Waste Codes	141
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This product contains one or more substances that are listed with the State of California as a hazardous waste.	
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Chemical name	California Hazardous Waste
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Zinc 7440-66-6	Ignitable powder Toxic
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14. TRANSPORT INFORMATION

DOT	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Manganese oxide (MnO) - 1344-43-0	1344-43-0	0.1 - 1	1.0
Zinc - 7440-66-6	7440-66-6	0.1 - 1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc 7440-66-6		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Zinc 7440-66-6	1000 lb		RQ 454 kg final RQ RQ 1000 lb final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sulfur 7704-34-9	X	X	X		

International Regulations

Mexico

National occupational exposure limits

Chemical name	Carcinogen Status	Exposure Limits
Manganese oxide (MnO)		Mexico: TWA 0.2 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

NFPA

Health Hazards 1

Flammability 0

Instability 0

	Physical and Chemical Hazards	-
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HMIS

	Health Hazards	1
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	Flammability	0
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	Physical Hazard	0
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	Personal Protection	X
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Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
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Revision Note	No information available

Disclaimer
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

End of Safety Data Sheet