# SAFETY DATA SHEET

Issuing Date 15-Feb-2011 Revision Date 18-Mar-2015 Revision Number 2



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

**Product identifier** 

Product Name 12v Lead Acid Battery Z Mower

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lead acid battery

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name The Toro Company

Supplier Address 8111 Lyndale Avenue South

Bloomington

MN 8515 US

**Supplier Phone Number** Phone:952-887-8515

Contact Phone951-785-3482

Supplier Email eden.allen@toro.com

Emergency telephone number

# 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured battery.

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1



Carcinogenicity	Category 1A
Reproductive toxicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

### GHS Label elements, including precautionary statements

### **Emergency Overview**

Signal word Danger

### Hazard Statements

Harmful if swallowed

Fatal if inhaled

Causes severe skin burns and eye damage

May cause cancer

May damage fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure



This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance. This is a battery. In case of rupture: the above hazards exist.

Appearance Black Physical State Solid Odor Neutral

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wear respiratory protection

# **Precautionary Statements - Response**

Specific treatment is urgent (see .? on this label)

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

### Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

# Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Immediately call a POISON CENTER or doctor/physician



### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### **Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

### Other information

Very toxic to aquatic life with long lasting effects

### **Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No	Weight-%	Trade Secret
Lead	7439-92-1	60 - 100	*
Sulfuric acid	7664-93-9	30 - 60	*
Antimony	7440-36-0	1 - 5	*
Arsenic	7440-38-2	< 0.1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

### First aid measures

**General Advice** First aid is upon rupture of sealed battery.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate

medical attention/advice.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Seek immediate medical attention/advice.

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#### Inhalation

Remove to fresh air. If breathing has stopped, give artificial respiration, Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur. Do not breathe dust.

### Ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

### Most important symptoms and effects, both acute and delayed

### **Most Important Symptoms and Effects**

Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite indigestion, nausea, vomiting, constipation, sleep disturbances and overall weakness. Severe exposures can lead to shock, circulatory collapse, and death.

### Indication of any immediate medical attention and special treatment needed

### **Notes to Physician**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.



# 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable extinguishing media

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

### **Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Uniform Fire Code Corrosive: Other--Solid

Highly Toxic: Solid

### **Hazardous Combustion Products**

Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

# 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 Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not

breathe dust.

Other Information Refer to protective measures listed in Sections 7 and 8.

**Environmental Precautions** 

Environmental Precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Should not be released into the environment. Do not allow to enter into

soil/subsoil. Prevent product from entering drains.

### 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.

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# 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** In case of rupture: Handle in accordance with good industrial hygiene and safety practice.

In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this

product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other

materials.

Incompatible Products Acids. Bases. Oxidizing agent.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead	TWA: 0.05 mg/m <sup>3</sup>	TWA: 50 μg/m³ TWA: 50 μg/m³	IDLH: 100 mg/m <sup>3</sup>
7439-92-1		Pb	TWA: 0.050 mg/m <sup>3</sup>
		Action Level: 30 µg/m³ Poison,	
		See 29 CFR 1910.1025 Action	
		Level: 30 µg/m³ Pb Poison, See	
		29 CFR 1910.1025	
Sulfuric acid	TWA: 0.2 mg/m3 thoracic fraction	TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup>
7664-93-9		(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
Antimony	TWA: 0.5 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup>
7440-36-0	Sb	Sb	TWA: 0.5 mg/m <sup>3</sup>
		(vacated) TWA: 0.5 mg/m <sup>3</sup>	
		(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	
Arsenic	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.01	TWA: 10 μg/m³ As	IDLH: 5 mg/m <sup>3</sup>
7440-38-2	mg/m³ As	Action Level: 5 µg/m³ As	Ceiling: 0.002 mg/m <sup>3</sup> 15 min
		(vacated) TWA: 0.5 mg/m <sup>3</sup>	

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

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992) See section 15 for national exposure control parameters

### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Face protection shield.



**Skin and Body Protection** Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant

apron. Impervious gloves.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all

None known

None known

contaminated protective equipment before re-use. Do not breathe dust.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Physical and Chemical Properties**

Physical StateSolidAppearanceBlackOdorNeutral

Color No information available Odor Threshold No information available

Property Values Remarks Method

pН No data available None known No data available None known Melting / freezing point Boiling point / boiling range No data available None known **Flash Point** No data available None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limitNo data availableVapor pressureNo data available

No data available None known Vapor density **Specific Gravity** No data available None known Water Solubility Immiscible in water None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known No data available None known **Autoignition temperature Decomposition temperature** No data available None known Kinematic viscosity No data available None known

Dynamic viscosityNo data availableExplosive propertiesNo data availableOxidizing PropertiesNo data available

# Other Information

Softening Point

VOC Content (%)

Particle Size

No data available

No data available

No data available

**Particle Size Distribution** 

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# 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to avoid

Exposure to air or moisture over prolonged periods. Excessive heat.

### Incompatible materials

Acids. Bases. Oxidizing agent.

### **Hazardous Decomposition Products**

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

In case of rupture:.

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May be fatal if

inhaled.

**Eye Contact** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

**Skin Contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea. May be harmful if swallowed.

**Component Information** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric acid 7664-93-9	= 2140 mg/kg (Rat)	-	= 510 mg/m³(Rat) 2 h

### Information on toxicological effects

Symptoms Erythema (skin redness). Burning. May cause blindness. Coughing and/ or wheezing.

Difficulty in breathing.

## 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** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Lead 7439-92-1	A3	Group 2A	Reasonably Anticipated	Х
Sulfuric acid 7664-93-9	A2	Group 1	Known	Х
Arsenic 7440-38-2	A1	Group 1	Known	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive Toxicity** Product is or contains a chemical which is a known or suspected reproductive hazard.

Contains a known or suspected reproductive toxin.

Developmental Toxicity STOT - single exposure

Contains ingredients that have suspected developmental hazards.

No information available.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from

chronic or repeated exposure. (STOT RE).

**Chronic Toxicity** 

No known effect based on information supplied. Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse effects on the bone marrow and blood-forming system. Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system.



Target Organ Effects Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Systemic Toxicity. Reproductive

System. Blood. Central Nervous System (CNS). Central Vascular System (CVS). Gingival Tissue. Kidney. Teeth. Cardiovascular system. Hematopoietic system. Immune system.

May damage the unborn child.

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)
593.00 mg/kg
ATEmix (inhalation-gas)
6,081.00 ppm (4 hr)
ATEmix (inhalation-dust/mist)
0.45 mg/l
ATEmix (inhalation-vapor)
15.00 ATEmix

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lead 7439-92-1		96h LC50: = 0.44 mg/L (Cyprinus carpio) 96h LC50: = 1.17 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.32 mg/L (Oncorhynchus mykiss)		48h EC50: = 600 μg/L
Sulfuric acid 7664-93-9		96h LC50: > 500 mg/L (Brachydanio rerio)		24h EC50: = 29 mg/L

### **Persistence and Degradability**

No information available.

### **Bioaccumulation**

No information available

### Other adverse effects

No information available.

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# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number D002 D004 D008

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lead 7439-92-1	(hazardous constituent - no waste number)	Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K064, K065, K066, K069, K086, K100, K176	= 5.0 mg/L regulatory level	
Antimony 7440-36-0		Included in waste streams: F039, K021, K161, K177		
Arsenic 7440-38-2		Included in waste streams: F032, F034, F035, F039, K031, K060, K084, K101, K102, K161, K171, K172, K176	5.0 mg/L regulatory level	

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Antimony				Toxic waste
7440-36-0				waste number K021
				Waste description: Aqueous
				spent antimony catalyst
				waste from fluoromethanes
				production.

### California Hazardous Waste Codes 792

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Lead	Toxic
7439-92-1	
Sulfuric acid	Toxic
7664-93-9	Corrosive
Antimony	Toxic
7440-36-0	

# 14. TRANSPORT INFORMATION

DOTNOT REGULATEDProper Shipping NameNON REGULATED

Hazard Class N/A

TDG Not regulated

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to TDG.

MEX Not regulated

ICAO Not regulated



<u>IATA</u> Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

ADR Not regulated

ADN Not regulated

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 %
Lead - 7439-92-1	7439-92-1	60 - 100	0.1
Sulfuric acid - 7664-93-9	7664-93-9	30 - 60	1.0
Antimony - 7440-36-0	7440-36-0	1 - 5	1.0
Arsenic - 7440-38-2	7440-38-2	< 0.1	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

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
Lead 7439-92-1		Х	X	
Sulfuric acid 7664-93-9	1000 lb			Х
Antimony 7440-36-0		Х	Х	
Arsenic 7440-38-2		Х	Х	



### **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
Lead 7439-92-1	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Sulfuric acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ
Antimony 7440-36-0	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Arsenic 7440-38-2	1 lb		RQ 1 lb final RQ RQ 0.454 kg final RQ

# **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Lead - 7439-92-1	Carcinogen
	Developmental
	Female Reproductive
	Male Reproductive
Sulfuric acid - 7664-93-9	Carcinogen
Arsenic - 7440-38-2	Carcinogen

# U.S. State Right-to-Know Regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Lead	Х	X	X	X	X
7439-92-1					
Sulfuric acid	X	X	X	X	X
7664-93-9					
Antimony	X	X	X	X	X
7440-36-0					
Calcium	Х	X	X		
7440-70-2					

# **International Regulations**

# Mexico

**National occupational exposure limits** 

Component	Carcinogen Status	Exposure Limits
Lead 7439-92-1 ( 60 - 100 )	A3	Mexico: TWA= 0.15 mg/m <sup>3</sup>
Sulfuric acid 7664-93-9 ( 30 - 60 )	A2	Mexico: TWA 1 mg/m <sup>3</sup>
Antimony 7440-36-0 ( 1 - 5 )		Mexico: TWA 0.5 mg/m <sup>3</sup>
Arsenic 7440-38-2 ( < 0.1 )	A1	Mexico: TWA 0.01 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

A2 - Suspected Human Carcinogen

A3 - Confirmed Animal Carcinogen

# Canada

**WHMIS Hazard Class** 

Non-controlled



# **16. OTHER INFORMATION**

NFPA Health Hazards 4 Flammability 0 Instability 0 Physical and

HMIS Health Hazards 0 Flammability 0 Physical Hazard 0 Personal Protection

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Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110

1-800-572-6501 15-Feb-2011

**Issuing Date** 15-Feb-2011 **Revision Date** 18-Mar-2015

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** 



# SAFETY DATA SHEET

Issuing Date 16-Mar-2015 Revision Date 16-Mar-2015 **Revision Number 2** 



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

**Product identifier** 

**Product Name** Toro 4 Cycle Oil 10w30

Other means of identification

**Synonyms** None

Recommended use of the chemical and restrictions on use

**Recommended Use** Engine (motor) oil for Auto or Boat

No information available Uses advised against

Details of the supplier of the safety data sheet

**Supplier Name** The Toro Company

**Supplier Address** 8111 Lyndale Avenue South

Bloomington

MN 8515 US

**Supplier Phone Number** Phone:952-887-8515

Contact Phone951-785-3482

**Supplier Email** 

eden.allen@toro.com Emergency telephone number

# 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity Category 1A

### GHS Label elements, including precautionary statements

**Emergency Overview** 

Signal word Danger



### **Hazard Statements**

May cause cancer



Appearance Clear, amber

Physical State Liquid

Odor Oily

### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### **Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

# **Other information**

Causes mild skin irritation

### **Interactions with Other Chemicals**

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No	Weight-%	Trade Secret
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	60 - 100	*
Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate	72162-32-4	1 - 5	*
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1 - 5	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

# 4. FIRST AID MEASURES



### First aid measures

**General Advice** Note: When using this product in high pressure equipment - Accidential high

velocity dermal injection of this material requires immediate medical attention.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention immediately if symptoms occur.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Call a physician or poison control center immediately. Do NOT induce vomiting.

### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** No information available.

**Effects** 

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable extinguishing media

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

### Specific Hazards Arising from the Chemical

No information available.

### **Hazardous Combustion Products**

Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

### 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 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use

personal protective equipment as required.

Other Information Refer to protective measures listed in Sections 7 and 8.

**Environmental Precautions** 

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system.

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**Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Use personal protection equipment. Take precautionary measures

against static discharges.

Conditions for safe storage, including any incompatibilities

Storage Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated

place.

Incompatible Products Oxidizing agent.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	TWA: 5 mg/m³, as oil mist, mineral STEL: TWA: 10 mg/m³, as oil mist, mineral	TWA: 5 mg/m <sup>3</sup> , as oil mist, mineral	
Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate 72162-32-4	-	TWA: 1 mg/m³ Ni (vacated) TWA: 0.1 mg/m³ Ni	IDLH: 10 mg/m³ Ni TWA: 0.015 mg/m³ except Nickel carbonyl Ni

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



Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 Other Exposure Guidelines

(11th Cir., 1992) See section 15 for national exposure control parameters

**Appropriate engineering controls** 

**Engineering Measures** Showers

> **Eyewash stations** Ventilation systems

Individual protection measures, such as personal protective equipment

Tight sealing safety goggles. **Eye/Face Protection** 

**Skin and Body Protection** Wear protective gloves and protective clothing.

**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.

**Hygiene Measures** When using do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Physical and Chemical Properties**

Physical State	Liquid		
Appearance	Clear, amber	Odor	Oily

Color No information available **Odor Threshold** No information available

Property **Values** Remarks Method UNKNOWN None known

Melting / freezing point No data available None known Boiling point / boiling range No data available None known Flash Point No data available None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air

**Upper flammability limit** No data available Lower flammability limit No data available

Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** No data available None known Water Solubility Insoluble in water None known No data available None known Solubility in other solvents None known Partition coefficient: n-octanol/waterNo data available No data available **Autoignition temperature** None known No data available None known **Decomposition temperature** Kinematic viscosity No data available None known None known

**Dynamic viscosity** No data available **Explosive properties** No data available **Oxidizing Properties** No data available

# **Other Information**

**Softening Point** No data available **VOC Content (%)** No data available **Particle Size** No data available



### **Particle Size Distribution**

# 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### **Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

### **Incompatible materials**

Oxidizing agent.

# **Hazardous Decomposition Products**

Carbon oxides.

# 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** 

### 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** The table below indicates whether each agency has listed any ingredient as a carcinogen.



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Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	A2	Group 1		X
Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate 72162-32-4		Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Chronic Toxicity** Contains a known or suspected carcinogen.

Target Organ Effects 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

Not applicable

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7		96h LC50: > 5000 mg/L (Oncorhynchus mykiss)		48h EC50: > 1000 mg/L
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3		96h LC50: 1.0 - 5.0 mg/L (Pimephales promelas) 96h LC50: 10.0 - 35.0 mg/L (Pimephales promelas)		48h EC50: 1 - 1.5 mg/L

### Persistence and Degradability

No information available.

### **Bioaccumulation**

No information available

### Other adverse effects

No information available.



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# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

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.

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

### California Hazardous Waste Codes 221

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	Toxic
68649-42-3	

# 14. TRANSPORT INFORMATION

DOTNOT REGULATEDProper Shipping NameNON REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated NON REGULATED

Proper Shipping Name NON Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

<u>RID</u> 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



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### **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 %
Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate - 72162-32-4	72162-32-4	1 - 5	0.1
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts - 68649-42-3	68649-42-3	1 - 5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard Yes
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
Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate 72162-32-4		X		
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3		X		

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Sulfuric acid, nickel salt, reaction products with sulfurized calcium	Carcinogen	
phenolate - 72162-32-4		

### **U.S. State Right-to-Know Regulations**

.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
phosphorodithioic acid O,O-dialkyl(C=I-14) esters zinc				X	
salts					
68649-42-3					
Sulfuric acid, nickel salt, reaction products with sulfurized			Х	Х	Х
calcium phenolate					
72162-32-4					

# International Regulations

### Mexico



National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Sulfuric acid, nickel salt, reaction products with		Mexico: TWA 0.1 mg/m <sup>3</sup>
sulfurized calcium phenolate		Mexico: STEL 0.3 mg/m <sup>3</sup>
72162-32-4 ( 1 - 5 )		_

Mexico - Occupational Exposure Limits - Carcinogens

#### Canada

WHMIS Hazard Class D2A - Very toxic materials



# **16. OTHER INFORMATION**

NFPA Health Hazards 1 Flammability 0 Instability 0 Physical and

Chemical Hazards -

HMIS Health Hazards 1\* Flammability 0 Physical Hazard 0 Personal Protection

Χ

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

Prepared By Product Stewardship

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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** 

