

# Tornado

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Tornado
<b>Other Means of Identification</b>	EV Tornado
<b>Product Family</b>	EV
<b>Recommended Use</b>	Cleaner.
<b>Manufacturer</b>	W.E. Greer Ltd., 14704 - 119 Avenue, Edmonton, AB, T5L 2P1, 780-451-1516, www.wegreer.com
<b>Emergency Phone No.</b>	CANUTEC, 1-888-226-8832, You can call *666 on your cellular phone

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Skin irritation - Category 3; Serious eye damage - Category 1; Specific target organ toxicity (single exposure) - Category 3

### Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes mild skin irritation.

Causes serious eye damage.

May cause respiratory irritation.

Precautionary Statement(s):

Prevention:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear eye protection/face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTRE or doctor if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

Storage:

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

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Alcohols, C7-21, ethoxylated	68991-48-0	6.5	
Sodium carbonate	497-19-8	4.5	
Gluconic acid, monosodium salt, D-	527-07-1	1	

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

#### Skin Contact

Wash with plenty of water. If skin irritation occurs, get medical advice or attention.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

#### Ingestion

Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

### Specific Hazards Arising from the Product

May include but is not limited to: very toxic carbon monoxide, carbon dioxide.

### Special Protective Equipment and Precautions for Fire-fighters

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Avoid repeated or prolonged skin contact. Avoid breathing in this product. Avoid generating vapours or mists. Keep containers tightly closed when not in use or empty. Prevent accidental contact with incompatible chemicals.

### Conditions for Safe Storage

Separate from incompatible materials (see Section 10: Stability and Reactivity). Keep out of reach of children.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Sodium carbonate	Not established		Not established			

### Appropriate Engineering Controls

General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Not normally required if product is used as directed. Where exposure guidelines may be exceeded: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Light amber liquid.
pH	11.14 - 11.40 (100% solution)
Flash Point	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Relative Density (water = 1)	1.06
Solubility	Soluble in all proportions in water
Auto-ignition Temperature	Not applicable
Other Information	
Physical State	Liquid
Other Physical Property 1	Percent Volatile: 85.2 - 85.3

## SECTION 10. STABILITY AND REACTIVITY

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Incompatible materials.

### Incompatible Materials

Organic acids (e.g. acetic acid), inorganic acids (e.g. hydrofluoric acid), strong acids (e.g. hydrochloric acid).

### Hazardous Decomposition Products

May include but not limited to: very toxic carbon monoxide, carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Gluconic acid, monosodium		6060 mg/kg (rat)	

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salt, D-			
EFR WinPol (sodium polycarboxylate)		> 2000 mg/kg (rat)	> 2000 mg/kg (rat)
Sodium carbonate	1150 mg/m3 (male rat) (4-hour exposure)	2800 mg/kg (rat)	> 2000 mg/kg (rabbit)
Alcohols, C7-21, ethoxylated		> 2000 mg/kg (rat)	

#### Skin Corrosion/Irritation

There is limited evidence of mild irritation.

#### Serious Eye Damage/Irritation

Animal tests show serious eye damage.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

##### Inhalation

May cause nose and throat irritation.

##### Ingestion

Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Symptoms may include dry, red, cracked skin (dermatitis).

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Sodium carbonate	300 mg/L (Lepomis macrochirus (bluegill); 96-hour; fresh water; static)	228 mg/L (Daphnia magna (water flea))		

#### Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
EFR WinPol (sodium polycarboxylate)				3500 mg/L (Daphnia magna (water flea))

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

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## SECTION 16. OTHER INFORMATION

**NFPA Rating**                      **Health - 2**    **Flammability - 0**                      **Instability - 0**

**SDS Prepared By**                W.E. Greer Ltd.

**Phone No.**                         780-451-1516

**Date of Preparation**            January 05, 2017

**Disclaimer**                        Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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