

# Safety Data Sheet

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VERSION: 1

## 1. IDENTIFICATION

### PRODUCT IDENTIFIER

**PRODUCT NAME** BESHET TORNADO 0

### OTHER MEANS OF IDENTIFICATION

**SDS Number**

**UN/ID No** UN1760

**Recommended Uses** Cleaning agent

### SDS-SUPPLIER INFORMATION

**SUPPLIER ADDRESS** Beshet Supply  
3600 West Jarvis Avenue  
Skokie, IL 60076

### EMERGENCY TELEPHONE NUMBER

**COMPANY PHONE NUMBER** (847) 679-2600

**COMPANY FAX NUMBER**

**24-HOUR EMERGENCY TELEPHONE (ACCOUNT #8686)**

**NORTH AMERICA** 1-800-633-8253

**INTERNATIONAL** PERS 1-801-629-0667

## 2. HAZARDS IDENTIFICATION

### CLASSIFICATION

Acute toxicity - Oral Category 4  
Acute toxicity - Inhalation (Vapors) Category 4  
Skin corrosion/irritation Category 1 Sub-Category B  
Serious eye damage/eye irritation Category 1

**SIGNAL WORD** Danger

### HAZARD STATEMENTS



**HAZARD STATEMENTS** 1. Harmful if swallowed  
2. Causes severe skin burns and eye damage

**APPEARANCE** According to product specification

**PHYSICAL STATE** Liquid

# Safety Data Sheet

## PRECAUTIONARY STATEMENTS

<b>PREVENTION</b>	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
<b>RESPONSE</b>	Immediately call poison center or doctor/ physician.
<b>IF SWALLOWED</b>	Call POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
<b>IF IN EYES</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention.
<b>IF ON SKIN/HAIR</b>	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse.
<b>IF INHALED</b>	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.
<b>IF EXPOSED/CONCERNED</b>	Get medical advice/ attention.
<b>STORAGE</b>	Store locked-up. Keep away from children.
<b>DISPOSAL</b>	Dispose of contents/container to an approved waste disposal plant.
<b>HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)</b>	N/A
<b>OTHER INFORMATION</b>	Harmful to aquatic life with long lasting effects.
<b>UNKNOWN ACUTE TOXICITY</b>	N/A

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT - %
Glycolic Acid	79-14-1	10-15
Hydrochloric acid	7647-01-0	10-15

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES

<b>GENERAL ADVICE</b>	Provide this SDS to medical personnel for treatment.
<b>EYE CONTACT</b>	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.
<b>SKIN CONTACT</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
<b>INHALATION</b>	Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call poison center or doctor/ physician.
<b>INGESTION</b>	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink 1-2 glasses of water. Immediate medical attention is required.

### POTENTIAL ACUTE HEALTH EFFECTS

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

<b>SYMPTOMS</b>	Causes severe skin burns and eye damage. Harmful if swallowed.
<b>NOTES TO PHYSICIAN</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

<b>SUITABLE EXTINGUISHING MEDIA</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>UNSUITABLE EXTINGUISHING MEDIA</b>	None known
<b>SPECIFIC HAZARDS ARISING FROM CHEMICAL</b>	Not determined

### PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

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

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

<b>PERSONAL PRECAUTIONS</b>	Use personal protective equipment as required.
<b>ENVIRONMENTAL PRECAUTIONS</b>	See Section 12 for additional Ecological Information.

### METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN-UP

# Safety Data Sheet

**CONTAMINATION** Prevent further leakage or spillage is safe to do so  
**CLEAN-UP** Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

**PROTECTIVE MEASURES** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapor/spray. Do not eat, drink, or smoke when using this product. Use personal protection recommended in Section 8.

### CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

**STORAGE CONDITIONS** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**INCOMPATIBLE MATERIALS** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m3 Ceiling: 5 ppm Ceiling: 7 mg/m3	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m3

**ENGINEERING CONTROLS:** Apply technical measures to comply with the occupational exposure limits.

### INDIVIDUAL PROTECTION MEASURES

**EYE/FACE PROTECTION** Refer to 29 CFR 1910.133 for eye and face protection regulations.  
**SKIN/BODY PROTECTION** Refer to 29 CFR 1910.138 for appropriate skin and body protection.  
**RESPIRATORY PROTECTION** Refer to 29 CFR 1910.134 for respiratory protection requirements.  
**GENERAL HYGIENE** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE** Liquid  
**APPEARANCE** Clear  
**COLOR** Colorless  
**ODOR** Not determined  
**ODOR THRESHOLD** Not determined  
**pH** 1.37  
**MELTING POINT/FREEZING POINT** Not determined  
**BOILING POINT/BOILING RANGE** Not determined

# Safety Data Sheet

<b>FLASH POINT</b>	Not determined
<b>EVAPORATION RATE</b>	Not determined
<b>FLAMMABILITY (SOLID, GAS)</b>	Not determined
<b>UPPER FLAMMABILITY LIMITS</b>	Not determined
<b>LOWER FLAMMABILITY LIMITS</b>	Not determined
<b>VAPOR PRESSURE</b>	Not determined
<b>SPECIFIC GRAVITY</b>	1.17
<b>RELATIVE DENSITY</b>	Not determined
<b>WATER SOLUBILITY</b>	Not determined
<b>PARTITION COEFFICIENT</b>	Not determined
<b>N-OCTANOL/ WATER</b>	Not determined
<b>AUTO-IGNITION TEMPERATURE</b>	Not determined
<b>DECOMPOSITION TEMPERATURE</b>	Not determined
<b>VISCOSITY</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Not reactive under normal conditions
<b>CHEMICAL STABILITY</b>	Stable under recommended storage conditions
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	None under normal processing
<b>CONDITIONS TO AVOID</b>	Keep out of reach of children
<b>INCOMPATIBLE MATERIALS</b>	None known based on information supplied.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

*Information on likely routes of exposure.*

<b>EYE CONTACT</b>	Causes severe eye damage.
<b>SKIN CONTACT</b>	Avoid contact with skin.
<b>INHALATION</b>	Avoid breathing vapors or mists.
<b>INGESTION</b>	May be harmful if swallowed.

## COMPONENT INFORMATION

# Safety Data Sheet

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Glycolic Acid <b>79-14-1</b>	= 1950 mg/kg ( Rat )	-	= 7100 µg/m <sup>3</sup> ( Rat ) 4 h
Hydrochloric acid <b>7647-01-0</b>	238 - 277 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	= 1.68 mg/L ( Rat ) 1 h
Ethoxylated Polyoxypropylene <b>9003-11-6</b>	= 5700 mg/kg ( Rat )	-	= 320 mg/m <sup>3</sup> ( Rat ) 4 h

**SYMPTOMS** Please see section 4 of this SDS for symptoms.

**CARCINOGENICITY** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested. Isopropyl Alcohol (IPA) is an IARC Monograph Group 3 chemical. IPA is a Group 1 when manufactured by the strong-acid process.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid <b>7647-01-0</b>		Group 3		

**NUMERICAL MEASURES OF TOXICITY-PRODUCT** Not determined.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY** Harmful to aquatic life with long lasting effects.

CHEMICAL NAME	ALGAE/ AQUATIC PLANTS	FISH	TOXIC TO	
			MICROORGANISMS	CRUSTACEA
Glycolic Acid <b>79-14-1</b>	-	5000: 96 h Brachydanio rerio mg/L LC50 static	-	-
Hydrochloric acid <b>7647-01-0</b>	-	282: 96 h Gambusia affinis mg/L LC50 static	-	-

**PERSISTENCE AND DEGRADABILITY** Not determined

**BIOACCUMULATION** Not determined

**MOBILITY**

**Chemical Name    Partition Coefficient**

Glycolic Acid  
**79-14-1**    -1.11

**OTHER ADVERSE EFFECTS** Not determined

## 13. DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS

**WASTE DISPOSAL** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**CONTAMINATED PACKAGING** Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Safety Data Sheet

## 14. TRANSPORT INFORMATION

### DOT

**UN/ ID No** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s. (Hydrochloric acid)  
**Hazard Class** 8  
**Packing Group** II

### IATA

**UN/ ID No** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s. (Hydrochloric acid)  
**Hazard Class** 8  
**Packing Group** II

### IMDG

**UN/ ID No** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s. (Hydrochloric acid)  
**Hazard Class** 8  
**Packing Group** II

## 15. REGULATORY INFORMATION

### INTERNATIONAL INVENTORIES

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Glycolic Acid	Present	X		Present		Present	X	Present	X	X
Hydrochloric acid	Present	X		Present		Present	X	Present	X	X

### LEGEND

<b>TSCA</b>	United States Toxic Substances Control Act Section 8(B) Inventory
<b>DSL/NDSL</b>	Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b>	European Inventory of Existing/Notified Chemical Substances
<b>ENCS</b>	Japan Existing and New Chemical Substances
<b>IECSC</b>	China Inventory of Existing Chemical Substances
<b>KECL</b>	Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	Philippines Inventory of Chemicals and Chemical Substances
<b>AICS</b>	Australian Inventory of Chemical Substances

## U.S. FEDERAL REGULATIONS

### 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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrochloric acid <b>7647-01-0</b>	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

# Safety Data Sheet

## SARA 313/312 HAZARD CATEGORIES

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 %
Hydrochloric acid	7647-01-0	10-15	1.0

## CLEAN WATER ACT (CWA)

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
Hydrochloric acid	5000 lb			X

## U.S. STATE REGULATIONS

### U.S. STATE RIGHT-TO-KNOW REGULATIONS

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Hydrochloric acid 7647-01-0	X	X	X

## 16. OTHER INFORMATION

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	Not determined	Not determined	Not determined	Not determined

  

HMIS	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	Not determined	Not determined	Not determined	Not determined

## DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge 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**