

# Safety Data Sheet

ISSUE DATE: September 2013

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VERSION: 1

## 1. IDENTIFICATION

### PRODUCT IDENTIFIER

PRODUCT NAME G-FORCE CRYSTAL 36

### OTHER MEANS OF IDENTIFICATION

SDS Number E-023

Recommended Uses Finishing 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

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

SIGNAL WORD: Warning

APPEARANCE According to product specification PHYSICAL STATE Liquid

OTHER HAZARDS Harmful to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT - %
tributoxyethyl phosphate	78-51-3	12-17
Glycol ether TPM	25498-49-1	12-17
Dipropylene Glycol Monomethyl Ether (DPM)	34590-94-8	12-17

\*\*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

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## DESCRIPTION OF FIRST AID MEASURES

<b>GENERAL ADVICE</b>	Provide this SDS to medical personnel for treatment.
<b>EYE CONTACT</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>SKIN CONTACT</b>	Wash off immediately with plenty of water for at least 15 minutes.
<b>INHALATION</b>	Remove to fresh air.
<b>INGESTION</b>	Clean mouth with water and drink afterwards plenty of water.

## POTENTIAL ACUTE HEALTH EFFECTS

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

<b>SYMPTOMS</b>	Not determined.
<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>	Not determined.
<b>SPECIFIC HAZARDS ARISING FROM CHEMICAL</b>	Not determined.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Not determined.

## PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

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

<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

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

## 7. HANDLING AND STORAGE

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## PRECAUTIONS FOR SAFE HANDLING

**PROTECTIVE MEASURES** Handle in accordance with good industrial hygiene and safety practice.

## 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
Dipropylene Glycol	STEL: 150 ppm	TWA: 100 ppm	IDLH: 600 ppm
Monomethyl Ether (DPM) 34590-94-8	TWA: 100 ppm S*	TWA: 600 mg/m3 (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m3 (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m3 (vacated) S* S*	TWA: 100 ppm TWA: 600 mg/m3 STEL: 150 ppm STEL: 900 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

<b>PHYSICAL STATE</b>	Liquid
<b>APPEARANCE</b>	Opaque
<b>COLOR</b>	White
<b>ODOR</b>	None
<b>ODOR THRESHOLD</b>	Not determined
<b>pH</b>	9.03
<b>MELTING POINT/FREEZING POINT</b>	Not determined
<b>BOILING POINT/BOILING RANGE</b>	Not determined
<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>	1.00
<b>RELATIVE DENSITY</b>	Not determined

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<b>WATER SOLUBILITY</b>	Not determined
<b>PARTITION COEFFICIENT 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 CONDITIONS TO AVOID</b>	None under normal processing 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>	Avoid contact with eyes.
<b>SKIN CONTACT</b>	Avoid contact with skin
<b>INHALATION</b>	Do not inhale.
<b>INGESTION</b>	Do not ingest.

### COMPONENT INFORMATION

<b>CHEMICAL NAME</b>	<b>ORAL LD50</b>	<b>DERMAL LD50</b>	<b>INHALATION LC50</b>
tributoxyethyl phosphate <b>78-51-3</b>	= 3000 mg/kg ( Rat ) )	> 16 mL/kg ( Rabbit )	> 6.4 mg/L ( Rat ) 4 h
Di(ethylene glycol) ethyl ether <b>111-90-0</b>	= 1920 mg/kg ( Rat ) )	= 6 mL/kg ( Rat ) = 4200 µL/kg ( Rabbit )	> 5240 mg/m3 ( Rat ) 4 h
Glycol ether TPM <b>25498-49-1</b>	= 3184 mg/kg ( Rat ) )	= 15440 mg/kg ( Rabbit )	-
Dipropylene Glycol Monomethyl Ether (DPM) <b>34590-94-8</b>	= 5230 mg/kg ( Rat ) )	= 9500 mg/kg ( Rabbit )	-

### INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS

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

### DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

**CARCINOGENICITY** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**NUMERICAL MEASURES OF TOXICITY** Not determined

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## 12. ECOLOGICAL INFORMATION

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

CHEMICAL NAME	ALGAE/ AQUATIC PLANTS	FISH	CRUSTACEA
tributoxyethyl phosphate <b>78-51-3</b>	-	10.4 - 12.0: 96 h Pimephales promelas mg/L LC50 flow-through 10000: 96 h Lepomis macrochirus mg/L LC50 static	
Di(ethylene glycol) ethyl ether <b>111-90-0</b>	-	19100 - 23900: 96 h Lepomis macrochirus mg/L LC50 flow-through 11400 - 15700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11600 - 16700: 96 h Pimephales promelas mg/L LC50 flow-through 13400: 96 h Salmo gairdneri mg/L LC50 flow-through	3940 - 4670: 48 h Daphnia magna mg/L EC50
Glycol ether TPM <b>25498-49-1</b>	-	11619: 96 h Pimephales promelas mg/L LC50 static	10: 48 h Daphnia magna mg/L EC50
Dipropylene Glycol Monomethyl Ether (DPM) <b>34590-94-8</b>	-	10000: 96 h Pimephales promelas mg/L LC50 static	1919: 48 h Daphnia magna mg/L LC50

**PERSISTENCE AND DEGRADABILITY** Not determined

**BIOACCUMULATION** Not determined

**MOBILITY**

Chemical Name	Partition Coefficient
tributoxyethyl phosphate <b>78-51-3</b>	3.65 - 4.78
Di(ethylene glycol) ethyl ether <b>111-90-0</b>	-0.8
Dipropylene Glycol Monomethyl Ether (DPM) <b>34590-94-8</b>	-0.064

**OTHER ADVERSE EFFECTS** Not determined

## 13. DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS

<b>WASTE DISPOSAL</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>CONTAMINATED PACKAGING</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## CALIFORNIA HAZARDOUS WASTE STATUS

<b>Chemical Name</b>	<b>California Hazardous Waste Status</b>
Zinc Ammonium Carbonate Compound 38714-47-5	Toxic

## 14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### DOT

Not Regulated

### IATA

Not Regulated

### IMDG

**Marine Pollutant** This material may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

### INTERNATIONAL INVENTORIES

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
tributoxyethyl phosphate	Present	X		Present		Present	X	Present	X	X
Glycol ether TPM Dipropylene Glycol	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, 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).

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## 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
Di(ethylene glycol) ethyl ether	111-90-0	1-5	1.0
Glycol ether TPM	25498-49-1	1-5	1.0
Dipropylene Glycol Monomethyl Ether (DPM)	34590-94-8	1-5	1.0
Zinc Ammonium Carbonate Compound	38714-47-5	1-5	1.0

## CLEAN WATER ACT (CWA)

This product does not contain any substances regulated as 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 Ammonium Carbonate Compound		X		

## U.S. STATE REGULATIONS

**CALIFORNIA PROPOSITION 65** This product contains the following Proposition 65 chemicals.

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

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Di(ethylene glycol) ethyl ether <b>111-90-0</b>	X		X
Glycol ether TPM <b>25498-49-1</b>	X		X
Dipropylene Glycol Monomethyl Ether (DPM) <b>34590-94-8</b>	X	X	X
Zinc Ammonium Carbonate Compound <b>38714-47-5</b>	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

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## 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**