

SAFETY DATA SHEET

Issue Date 19-May-2014

Revision Date 01-Jan-2016

Version 1

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

Product identifier

G-FORCE

Other means of identification	
Product Code	2301
Synonyms	None

Recommended use of the chemical and restrictions on useRecommended UseSoy Booster for CleaningUses advised againstNo information available

<u>Details of the supplier of the safety data sheet</u> <u>Manufacturer Address</u> Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

Emergency telephone numberCompany Phone Number404-761-065724 Hour Emergency Phone Number800-424-9300Emergency TelephoneChemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Label elements

Emergency Overview

Appearance Clear

Physical state liquid

Odor Low

Hazards not otherwise classified (HNOC) Other Information • Causes mild skin irritation Unknown Acute Toxicity % of the

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS No. Weight-% Trade Secret

Ethylene Glycol Monobutyl Ether	111-76-2	<10	*
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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 for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin Contact	Rinse with clear water.	
Inhalation	Remove to fresh air. If breathing does not return to normal, seek medical attention.	
Ingestion	Immediately drink large quantities of water. Get medical attention. Do not induce vomiting.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		

Suitable extinguishing media

Carbon dioxide (CO2). Dry chemical. Alcohol Foam.

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 Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

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

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep tightly closed in a dry and cool place. Keep out of reach of children. Do not freeze.
Follow label instructions.

Incompatible materials Strong acids. OXIDIZERS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol Monobutyl Ether	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
111-76-2		TWA: 240 mg/m ³	TWA: 5 ppm
		(vacated) TWA: 25 ppm	TWA: 24 mg/m ³
		(vacated) TWA: 120 mg/m ³	-
		(vacated) S*	
		S*	

Appropriate engineering controls

Engineering Controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear Neoprene or protective rubber gloves. Drenching safety shower and eye wash station.
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.
General Hygiene Considerations	Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid Clear Amber	Odor Odor thr
Property_ pH Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate	<u>Values</u> 8.5 No information available 100 >212°F No information available <1	<u>Remarks</u>

Odor threshold

Lemon No information available

Remarks • Method

Flammability (solid, gas) Flammability Limit in Air	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1
Water solubility	completely soluble
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Other Information	
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available

8.22 No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

Density

Bulk density

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

Extremes of temperature and direct sunlight.

Incompatible materials

Strong acids. OXIDIZERS.

Hazardous Decomposition Products

Carbon dioxide (CO2). Carbon monoxide. heat.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	Irritation and difficulty in breathing.
Eye contact	Severely irritating to eyes.
Skin Contact	No data available.

Ingestion

Gastric pain and vomiting.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
111-76-2			

Information on toxicological effects

Symptoms

No information available.

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

Sensitization Germ cell mutagenicity Carcinogenicity	No informat	ion available. ion available. ion available.		
Carcinogenicity Chemical Name			NTP	OSHA
Ethylene Glycol Monobutyl Ether 111-76-2	A3	Group 3	-	-
Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	No information available. No information available. No information available. No information available.			

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity % of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

22.95% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethylene Glycol Monobutyl Ether	-	2950: 96 h Lepomis macrochirus	1000: 48 h Daphnia magna mg/L
111-76-2		mg/L LC50 1490: 96 h Lepomis	EC50 1698 - 1940: 24 h Daphnia
		macrochirus mg/L LC50 static	magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Ethylene Glycol Monobutyl Ether	0.81
111-76-2	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
Ethylene Glycol Monobutyl Ether - 111-76-2	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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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 does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol Monobutyl Ether	Х	X	Х
111-76-2			1

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION					
NFPA	Health hazards 0	Flammability	0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 1	Flammability	1	Physical hazards 0	Personal protection X
Prepared By	Moira Blackflower				
Issue Date	19-May-2014				
Revision Date	01-Jan-2016				
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