

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 07/01/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Perfect Glass
Product code	: G6
1.2. Recommended use and restriction	
1.2. Recommended use and restriction	
1.3. Supplier	
GTECHNIQ LTD	GTECHNIQ NORTH AMERICA
Bridge Business Park	4780 Hammond Industrial Drive
Upper Heyford	Suite 100
Northampton, NN7 3FA - United Kingdom	Cumming GA 30041
T +44 (0)1604 962 553 uk@gtechnig.com - www.gtechnig.com	T (855) 483-2401
	infona@gtechniq.com - www.gtechniq.com
1.4. Emergency telephone number	
Emergency number	: +44 (0)1933 445 260
	For Chemical Emergency Call 24hr / day, 7 days / week.
SECTION 2: Hazard(s) identificati	on
2.1. Classification of the substance of	or mixture
GHS US classification	
Serious eye damage/eye irritation Category	2 H319 Causes senous eye imailon
Full text of H statements : see section 16	
2.2. GHS Label elements, including p	precautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Hazaru pictograms (GHS US)	
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Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H319 - Causes serious eye irritation
Precautionary statements (GHS US)	: P102 - Keep out of reach of children.
	P264 - Wash hands thoroughly after handling.
	P280 - Wear eye protection, protective clothing, protective gloves.
	P308+P313 - If exposed or concerned: Get medical advice/attention.
2.3. Other hazards which do not resu	It in classification
No additional information available	
2.4. Unknown acute toxicity (GHS US	3)
Not applicable	
	ation on ingradiants
SECTION 3: Composition/Informa	
3.1. Substances	
Not applicable	
3.2. Mixtures	

Name	Product identifier	%	GHS US classification
PROPAN-2-OL	(CAS-No.) 67-63-0	1 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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Name	Product identifier	%	GHS US classification
2-Butoxyethanol	(CAS-No.) 111-76-2	1 – 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
I.2. Most important symptoms and effect	s (acute and delayed)
Symptoms/effects after inhalation	: May be irritating to the respiratory system.
Symptoms/effects after skin contact	: May cause irritation to skin.
Symptoms/effects after eye contact	: Causes eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
4.3. Immediate medical attention and spe	cial treatment, if necessary
Freat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	ing media
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
.2. Specific hazards arising from the cho	emical
Fire hazard	: Not flammable.
Explosion hazard	: Product is not explosive.
Reactivity in case of fire	: Not known.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and protecti	ecautions for fire-fighters
Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	lipment and emergency procedures
General measures	: Avoid contact with skin and eyes.
6.1.1. For non-emergency personnel	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.
5.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.
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6.2.	Environmental precautions	
Avoid	release to the environment.	
6.3.	Methods and material for contain	ment and cleaning up
For c	containment	: Absorb spillage.
Meth	ods for cleaning up	 Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Wear personal protective equipment.
Hygiene measures	: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, includin	g any incompatibilities
Technical measures	: Does not require any specific or particular technical measures.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.
Incompatible materials	: Sources of ignition. Direct sunlight. Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Perfect Glass	
No additional information available	
PROPAN-2-OL (67-63-0)	
USA - ACGIH - Occupational Exposure Li	mits
Local name	2-Propanol
ACGIH TWA (ppm)	200 ppm
ACGIH STEL (ppm)	400 ppm
Remark (ACGIH)	Eye & URT irr; CNS impair
Regulatory reference	ACGIH 2020
USA - ACGIH - Biological Exposure Indice	98
Local name	2-PROPANOL
Biological Exposure Indices (BEI)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Lin	nits
Local name	Isopropyl alcohol
OSHA PEL (TWA) (mg/m³)	980 mg/m³
OSHA PEL (TWA) (ppm)	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
2-Butoxyethanol (111-76-2)	
USA - ACGIH - Occupational Exposure Li	mits
Local name	2-Butoxyethanol (EGBE)
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	Eye & URT irr
Regulatory reference	ACGIH 2020
USA - ACGIH - Biological Exposure Indice	95
Local name	2- BUTOXYETHANOL
Biological Exposure Indices (BEI)	200 mg/g Kreatinin Parameter: Butoxyacetic acid (BAA) (with hydrolysis) - Medium: urine - Sampling time: End of shift
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Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Limits		
Local name	2-Butoxyethanol	
OSHA PEL (TWA) (mg/m³)	240 mg/m ³	
OSHA PEL (TWA) (ppm)	50 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. PPE compliant to the recommended EN/ISO or equivalent standards should be selected.

Hand protection:

In case of repeated or prolonged contact wear gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask. Where exposure through inhalation may occur from handling or use, respiratory protection equipment is required. Exposure limits for airborne contaminants must not be exceeded.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical p	roperties	
.1. Information on basic physical and ch	emical properties	
Physical state	: Liquid	
Color	: Colorless	
Odor	: alcoholic	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: >60 °C	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Water: Solubility in water of component(s) of the mixture : • 2-Butoxyethanol: 1000000 mg/l • Water: 1000000 mg/l	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
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Oxidizing properties	: No data available
.2. Other information	
lo additional information available	
SECTION 10: Stability and reactivity	ty
0.1. Reactivity	
Stable at ambient temperature and under norm	nal conditions of use.
0.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	\$
Jnder normal conditions of storage and use, h	azardous reactions will not occur.
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low tempera	tures.
0.5. Incompatible materials	
Strong acids. Strong bases. Strong oxidizing a	agents.
I0.6. Hazardous decomposition produc	-
fume. Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological inform	ation
11.1. Information on toxicological effect	
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified
Acute toxicity (inhalation)	: Not classified
	. Not diassined
2-Butoxyethanol (111-76-2)	
LD50 oral rat	1414 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE US (oral)	1414 mg/kg body weight
ATE US (dermal)	435 mg/kg body weight
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	2200 mg/l/4h
Skin corrosion/irritation Serious eye damage/irritation	: Not classified : Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
2-Butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
PROPAN-2-OL (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
2-Butoxyethanol (111-76-2)	
NOAEL (dermal,rat/rabbit,90 days)	> 150 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Aspiration hazard	Not classified
Viscosity, kinematic	: No data available
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Symptoms/effects after inhalation	: May be irritating to the respiratory system.
Symptoms/effects after skin contact	: May cause irritation to skin.
Symptoms/effects after eye contact	: Causes eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.

SECTION 12: Ecological information

12.1. Toxicity

LC50 fish 1	9640 ma/l
	5
LC50 other aquatic organisms 1	7550 mg/l
2-Butoxyethanol (111-76-2)	
LC50 fish 1	1464 mg/l
EC50 Daphnia 1	≈ 1800 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	1550 mg/l waterflea
EC50 other aquatic organisms 2	911 mg/l
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration '21 d'

12.2. Persistence and degradability

Perfect Glass	
Persistence and degradability	Biodegradable.

12.3. Bioaccumulative potential

Perfect Glass		
Bioaccumulative potential	No bioaccumulation.	
2-Butoxyethanol (111-76-2)		
Partition coefficient n-octanol/water (Log Pow)	0.8	
12.4. Mobility in soil		

No additional information available

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal consideration	S
13.1. Disposal methods	
Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

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Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information
15.1. US Federal regulations
2-Butoxyethanol (111-76-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
15.2. International regulations
CANADA
2-Butoxyethanol (111-76-2)
Listed on the Canadian DSL (Domestic Substances List)
EU-Regulations
No additional information available
National regulations
No additional information available
15.3. US State regulations

Component	State or local regulations
2-Butoxyethanol(111-76-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.