

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 7/1/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form Product name Product code	: Mixture : Smart Fabric v3 : I1 v3
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Textile Coating
1.3. Supplier	
GTECHNIQ LTD Bridge Business Park Upper Heyford Northampton, NN7 3FA United Kingdom T +44 (0)1604 962 553 uk@gtechniq.com - www.gtechniq.com	GTECHNIQ NORTH AMERICA 4780 Hammond Industrial Drive Suite 100 Cumming GA 30041 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) identification	

	/	
2.4. Classification of the substance or mixture		
2.1. Classification of the substance or mixture		
GHS US classification		
Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness
Full text of H statements : see section 16		

## 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)

- : Danger
- : H225 Highly flammable liquid and vapor
  - H319 Causes serious eye irritation
  - H336 May cause drowsiness or dizziness
- : P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/Bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.

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P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing fume, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, protective clothing, protective gloves. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a doctor, a POISON CENTER if you feel unwell. P337+P313 - If eye irritation persists: Get medical advice/attention. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Propan-2-ol	CAS-No.: 67-63-0		Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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	<ul> <li>Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	<ul> <li>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.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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4.2. Most important symptoms and effects (acute and delayed)		
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.	
symptoms		
Symptoms/effects	: May cause drowsiness or dizziness.	
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause respiratory irritation.	
Symptoms/effects after skin contact	: May cause irritation to skin.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.	
4.3. Immediate medical attention and special treatment, if necessary		

Treat symptomatically. Call a doctor.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	g media	
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Alcohol-resistant foam. Dry powder. Sand.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Specific hazards arising from the chemical		
Fire hazard Explosion hazard Reactivity in case of fire Hazardous decomposition products in case of fire	<ul> <li>Highly flammable liquid and vapor. vapors may travel long distances along ground before igniting/flashing back to vapor source.</li> <li>May form flammable/explosive vapor-air mixture.</li> <li>Not known.</li> <li>Toxic fumes may be released.</li> </ul>	
5.3. Special protective equipment and precautions for fire-fighters		
Precautionary measures fire Firefighting instructions	<ul> <li>Exercise caution when fighting any chemical fire.</li> <li>Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.</li> </ul>	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, p	rotective equipment and emergency procedures	
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General measures	smoking. Avoid contact with skin and eyes. Ensure adequate ventilation.
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	: Evacuate unnecessary personnel. Ventilate area.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing fume, mist, spray, vapors.
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel.
6.2. Environmental precautions	

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment	and cleaning up	
For containment	: Absorb spillage.	

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Methods 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). Store away from other materials.
Other information	: This material and its container must be disposed of as hazardous waste.

## 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		
Additional hazards when processed Precautions for safe handling	<ul> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>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. No open flames. No smoking. Use only non-sparking tools. Avoid breathing fume, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Wear suitable protective clothing, gloves and eye or face protection.</li> </ul>	
Hygiene measures	: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Sources of ignition. Keep in fireproof place. Keep container tightly closed.	
Incompatible products	: Strong acids. Strong bases. Strong oxidizing agents.	
Incompatible materials	: Sources of ignition. Heat sources. Direct sunlight.	
Storage temperature	: 15 – 30 °C	
Storage area	: Store in a well-ventilated place.	
Packaging materials	: Keep only in original container.	

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	<ul> <li>Ensure adequate ventilation. Use spark-/explosionproof appliances and lighting system.</li> <li>Avoid release to the environment.</li> </ul>
Environmental exposure controls	: Avoid release to the environment.

## 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:						
Wear protective gloves.						
Type         Material         Permeation         Thickness (mm)         Penetration						
Disposable gloves         Polyvinylchloride (PVC)         2 (> 30 minutes)         0.5         2 (< 1.5)						
Eye protection:						
Chemical goggles or safety glasses						

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Туре	Field of application	Characteristics
Safety glasses Droplet, mist clear		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
Wear respiratory protection. Where exposure through inhalation may occur from handling or use, respiratory protection equipment is required.		

Exposure limits for airborne contaminants must not be exceeded.

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke during use.

Color:Odor:Odor threshold:pH:Melting point:Freezing point:Boiling point:Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	Liquid Colorless alcoholic No data available No data available No data available No data available 82 °C 12 °C No data available Highly flammable liquid and vapor.
Color:Odor:Odor threshold:pH:Melting point:Freezing point:Boiling point:Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	Colorless alcoholic No data available No data available No data available No data available 82 °C 12 °C No data available Highly flammable liquid and vapor.
Odor threshold:pH:Melting point:Freezing point:Boiling point:Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	No data available No data available No data available No data available 82 °C 12 °C No data available Highly flammable liquid and vapor.
pH:Melting point:Freezing point:Boiling point:Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	No data available No data available No data available 82 °C 12 °C No data available Highly flammable liquid and vapor.
Melting point:Freezing point:Boiling point:Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	No data available No data available 82 °C 12 °C No data available Highly flammable liquid and vapor.
Freezing point:Boiling point:Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	No data available 82 °C 12 °C No data available Highly flammable liquid and vapor.
Boiling point:Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	82 °C 12 °C No data available Highly flammable liquid and vapor.
Flash point:Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	12 °C No data available Highly flammable liquid and vapor.
Relative evaporation rate (butyl acetate=1):Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	No data available Highly flammable liquid and vapor.
Flammability (solid, gas):Vapor pressure:Relative vapor density at 20 °C:	Highly flammable liquid and vapor.
Vapor pressure : Relative vapor density at 20 °C :	
Relative vapor density at 20 °C	No. Jaka availabla
	No data available
Relative density :	No data available
	No data available
Solubility :	Miscible.
	No data available
Auto-ignition temperature :	No data available
	No data available
Viscosity, kinematic :	No data available
	No data available
	No data available
	No data available No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

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#### 10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

**10.6. Hazardous decomposition products** 

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

#### **SECTION 11: Toxicological information** 11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified · Skin corrosion/irritation : Not classified Causes serious eye irritation. Serious eye damage/irritation : Respiratory or skin sensitization Not classified : Germ cell mutagenicity : Not classified Carcinogenicity · Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. Propan-2-ol (67-63-0) STOT-single exposure May cause drowsiness or dizziness. STOT-repeated exposure Not classified Aspiration hazard • Not classified Viscosity, kinematic • No data available Potential Adverse human health effects and Based on available data, the classification criteria are not met. symptoms Symptoms/effects May cause drowsiness or dizziness. :

: May cause drowsiness or dizziness. May cause respiratory irritation.

- : May cause irritation to skin.
- : Causes serious eye irritation.
  - : May cause irritation to the digestive tract.

## **SECTION 12: Ecological information**

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Symptoms/effects after ingestion

### 12.1. Toxicity

Propan-2-ol (67-63-0)	
LC50 - Fish [1]	9640 mg/l
LC50 - Other aquatic organisms [1]	7550 mg/l

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12.2. Persistence and degradability			
Smart Fabric v3			
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			
Smart Fabric v3			
Bioaccumulative potential	Not established.		
12.4. Mobility in soil			
No additional information available			

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Regional legislation (waste) Waste treatment methods	<ul> <li>Disposal must be done according to official regulations.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> </ul>	
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.	
Additional information Ecology - waste materials	<ul><li>Handle empty containers with care because residual vapors are flammable.</li><li>Avoid release to the environment.</li></ul>	

# **SECTION 14: Transport information**

### In accordance with DOT / TDG / IMDG / IATA

14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN1219 : UN1219 : 1219 : 1219
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Isopropanol</li> <li>ISOPROPYL ALCOHOL</li> <li>ISOPROPANOL (ISOPROPYL ALCOHOL)</li> <li>Isopropyl alcohol</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: 3

Hazard labels (DOT)



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<b>TDG</b> Transport hazard class(es) (TDG) Hazard labels (TDG)	
<b>IMDG</b> Transport hazard class(es) (IMDG) Hazard labels (IMDG)	$\begin{array}{c} \vdots \\ 3 \\ \vdots \\ 3 \end{array}$
<b>IATA</b> Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: H : H : H : H
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	<ul> <li>UN1219</li> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 4b;150 : 202 : 242

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DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
TDG	
UN-No. (TDG)	: UN1219
Explosive Limit and Limited Quantity Index	: 1L
Excepted quantities (TDG)	: E2
Passenger Carrying Road Vehicle or Passenger	: 5L
Carrying Railway Vehicle Index	
Emergency Response Guide (ERG) Number	: 129
IMDG	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: В
Flash point (IMDG)	: 12°C c.c.
Properties and observations (IMDG)	: Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12% Miscible with wate
ΑΤΑ	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364

- CAO max net quantity (IATA) : 60L Special provision (IATA) : A180
- ERG code (IATA) : 3L

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Propan-2-ol	67-63-0	Not present	-	

## 15.2. International regulations

## CANADA

No additional information available

## **EU-Regulations**

No additional information available

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### **National regulations**

No additional information available

15.3. US State regulations

No additional information available

SECTION	16: Other information
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Data sources	<ul> <li>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.</li> </ul>
Other information	ion : None.
Full text of F	-phrases
H225	Highly flammable liquid and vapor

11225	
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Safety Data Sheet (SDS), USA

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.