

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 : Residue Remover

Product code : G2

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Solvents

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 T (855) 483-2401

<u>uk@gtechniq.com</u> - <u>www.gtechniq.com</u> <u>infona@gtechniq.com</u> - <u>www.gtechniq.com</u>

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

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2

Serious eye damage/eye irritation Category 2

Specific target organ toxicity (single exposure) Category 3

H225

Highly flammable liquid and vapor
Causes serious eye irritation

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) : Danger

Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor

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

Precautionary statements (GHS US) : P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 - Avoid breathing fume, mist, spray, vapors.

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.

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

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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	≥ 80	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 : 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.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

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.

4.2. Most important symptoms and effects (acute and delayed)

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 media

Suitable extinguishing media : Water spray. Sand. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor. vapors may travel long distances along ground before

igniting/flashing back to vapor source.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity in case of fire : Not known.

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering

environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

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.

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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.

Methods and material for containment and cleaning up

For containment : Absorb spillage.

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 : Handle empty containers with care because residual vapors are flammable.

Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling

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.

: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Hygiene measures

Conditions for safe storage, including any incompatibilities

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond Technical measures

container and receiving equipment. Use explosion-proof electrical equipment.

: Keep only in the original container in a cool, well ventilated place away from : Sources of Storage conditions

ignition. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Anhydride. Isocyanates. Monomer. organo-metallic. : Sources of ignition. Heat sources. Direct sunlight.

Incompatible materials

Storage area Store in a well-ventilated place Packaging materials : Keep only in original container.

SECTION 8: Exposure controls/personal protection

Control parameters

Residue Remover		
No additional information available		
PROPAN-2-OL (67-63-0)		
USA - ACGIH - Occupational Exposure Limits		
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 Indices		
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 Limits		
Local name	Isopropyl alcohol	
OSHA PEL (TWA) (mg/m³)	980 mg/m³	
OSHA PEL (TWA) (ppm)	400 ppm	

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Regulatory reference (US-OSHA) OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure adequate ventilation. Use spark-/explosionproof appliances and lighting system.

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.

Eye protection:

Chemical goggles or safety glasses

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.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidColor: ColorlessOdor: alcoholic

Odor threshold : No data available pH : No data available

Melting point : -89 °C

Freezing point : No data available Boiling point : No data available

Flash point : 12 °C Relative evaporation rate (butyl acetate=1) : 3.9

Flammability (solid, gas) : Highly flammable liquid and vapor.

Vapor pressure : 4.3 kPa (32.25mm Hg) at 20°C [Calculated]

Relative vapor density at 20 °C : > 1 at 101 kPa [Calculated]

Relative density : No data available
Solubility : Soluble in water.
Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : > 350 °C

Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

Explosion limits : Lower explosive limit (LEL): 2
Upper explosive limit (UEL): 12

Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

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

Anhydride. Isocyanates. Monomer. organo-metallic.

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

Serious eye damage/irritation : Causes serious eye 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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

: No data available

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.

SECTION 12: Ecological information

12.1. Toxicity

Viscosity, kinematic

PROPAN-2-OL (67-63-0)	
LC50 fish 1	9640 mg/l
LC50 other aquatic organisms 1	7550 mg/l

12.2. Persistence and degradability

Residue Remover	
Persistence and degradability	Not established.

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12.3. **Bioaccumulative potential**

Residue Remover	
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) : Disposal must be done according to official regulations.

: Dispose of contents/container in accordance with licensed collector's sorting instructions. Waste treatment methods

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 : Handle empty containers with care because residual vapors are flammable.

: Avoid release to the environment. Ecology - waste materials

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1219 Isopropanol, 3, II

UN-No.(DOT) : UN1219 Proper Shipping Name (DOT) : Isopropanol

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

: II - Medium Danger Packing group (DOT) Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102)

: 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...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b, 150

(49 CFR 173.27)

DOT Quantity Limitations Passenger aircraft/rail : 5 L

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

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.

Emergency Response Guide (ERG) Number

Other information

: No supplementary information available.

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Transportation of Dangerous Goods

Transport document description : UN1219 ISOPROPANOL, 3, II

UN-No. (TDG) : UN1219
Proper Shipping Name (Transportation of : ISOPROPANOL

Dangerous Goods)
TDG Primary Hazard Classes

: 3 - Class 3 - Flammable Liquids

Packing group : II - Medium Danger

Explosive Limit and Limited Quantity Index : 1 L
Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Transport by sea

Transport document description (IMDG) : UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II (12°C c.c.)

UN-No. (IMDG) : 1219

Proper Shipping Name (IMDG) : ISOPROPANOL (ISOPROPYL ALCOHOL)

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Limited quantities (IMDG) : 1 L

Air transport

Transport document description (IATA) : UN 1219 Isopropanol, 3, II

UN-No. (IATA) : 1219
Proper Shipping Name (IATA) : Isopropanol

Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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

SDS US (GHS HazCom 2012)

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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.

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