

Safety Data Sheet

according to 1907/2006/EC, Article 31

GUM REMOVER SOLUTION

6.2. Environmental precautions

Prevent further spillage if safe. Advise local authorities if large spills cannot be contained.

6.3. Methods and material for containment and cleaning up

Contain with sand or granules. Sweep up. Transfer to suitable, labelled containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling


Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Adopt best Manual Handling considerations when handling, carrying and dispensing.
Eye / face protection	Safety glasses.
Skin protection - Handprotection	Rubber gloves.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Users should be aware of environmental considerations and their duties under the Environmental Protection Act.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Colourless
Odour	Characteristic
pH	3 - 4
Relative density	1 - 1.02
Solubility	Soluble in water

SECTION 10: Stability and reactivity

10.2. Chemical stability

Stable under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity The material is unlikely to cause any adverse effects in normal conditions of handling and use.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on this product.

SECTION 13: Disposal considerations

Safety Data Sheet

according to 1907/2006/EC, Article 31
 GUM REMOVER SOLUTION

Revision 1
 Revision date 2011-10-12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	GUM REMOVER SOLUTION
--------------	----------------------

1.3. Details of the supplier of the safety data sheet

Company	Merlin Chemicals Ltd
Address	Unit 5, Passfield Mill Business Park, Liphook, Hants. GU30 7RR. United Kingdom
Web	www.merlinchemicals.co.uk
Telephone	+44 (0)1428 751122
Fax	+44 (0)1428 751133
Email	technical@merlinchemicals.co.uk

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Main hazards	No Significant Hazard
--------------	-----------------------

SECTION 3: Composition/Information on Ingredients

Description

	No Significant Hazard.
--	------------------------

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	If affected move to fresh air. Keep warm and at rest.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. DO NOT INDUCE VOMITING.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
--	---

5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
--	---

5.3. Advice for firefighters

	Wear: Self-contained breathing apparatus.
--	---

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
--	--

Safety Data Sheet

according to 1907/2006/EC, Article 31
 GUM REMOVER SOLUTION

General information

	Dispose of in compliance with all local and national regulations.
--	---

Disposal of packaging

	Containers must be recycled in compliance with national legislation and environmental regulations.
--	--

SECTION 14: Transport Information

ADR/RID

	The product is not classified as dangerous for carriage.
--	--

IMDG

	The product is not classified as dangerous for carriage.
--	--

IATA

	The product is not classified as dangerous for carriage.
--	--

SECTION 15: Regulatory Information

Labelling

Risk phrases	No Significant Hazard.
Safety phrases	S1/2 - Keep locked up and out of the reach of children. S13 - Keep away from food, drink and animal feedingstuffs. S25 - Avoid contact with eyes. S37/39 - Wear suitable gloves and eye/face protection. S46 - If swallowed, seek medical advice immediately and show this container or label.

SECTION 16: Other Information

Other information

Revision	This document differs from the previous version in the following areas: 3 - Description.
----------	---

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process. This version replaces all previous versions.
--	---

SAFETY DATA SHEET

DATE REVISED: 01.03.13
Supersedes SDS dated N/A
Date issued: 01.03.13



THIS DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH
CRONER'S HAZARD INFORMATION AND PACKAGING GUIDE

1. Identification of the Substance/Preparation and Company Substance or preparation trade name:

Butane-Propane Mix Gas Cartridge
Unique reference number(s):

GP03

Company name, address and normal telephone number:

EcoGum, 349-353 High Street
Harborne, Birmingham, B17 9PU, England
T: +44 (0)161 367 1315 F: +44(0)161 367 1316
E: info@ecogum.co.uk
Emergency telephone no:
+44(0)161 121 427 5815

2. Composition/Information on Ingredients

Preparation: BUTANE (LIQUEFIED PETROLEUM GAS)

Substance	CAS number:	EC Index number:	EEG number:	Erlics number:
Butane	106-97-9	601-004-00-0	203-448-7	270-704-2
Propane	74-98-6	601-003-00-5	200-527-9	200-527-9

Hydrocarbons C3-4 Rich, Petroleum Distillates, Petroleum Gas Liquefied.

Other extremely flammable components.

3. Hazards Identifications

The most important hazards are:

EXTREMELY FLAMMABLE GAS
EXPOSURE TO HIGH CONCENTRATIONS OF VAPOUR
CAN LEAD TO NAUSEA, HEADACHE, DIZZINESS AND
IN EXTREME CASES, LOSS OF CONSCIOUSNESS,
AND IN OXYGEN DEFICIENT ENVIRONMENTS, DEATH.
SKIN CONTACT WITH LIQUEFIED GAS CAN CAUSE COLD BURNS



4. First Aid Measures

Immediate medical attention required. Yes
Professional assistance from physician required. Yes
Summary of first aid is as follows:

Inhalation: remove subject to fresh air as soon as possible using self contained breathing apparatus if appropriate to protect rescuer. If subject breathing, keep warm and at rest, preferably lying down. Do not leave the subject. Remove contaminated clothing if possible. If subject has stopped breathing, give appropriate artificial respiration (preferably with a mask). When breathing starts, place subject in recovery position. Do not leave the victim. Get medical assistance as soon as possible, remove to hospital for further treatment. Give oxygen if available (short applications, not continuous therapy).

Skin contact: Immediately drench skin with cold water, irrigating the affected area for 10 minutes. As soon as possible get medical aid and/or remove subject to hospital for specialised treatment.

Eye contact: Immediately drench eyes with cold water, irrigating the affected area for 10 minutes. As soon as possible get medical aid and/or remove subject to hospital for specialised treatment.

Ingestion: Remove subject to fresh air as soon as possible, and follow the guidelines for 'Inhalation' above.

5. Fire-Fighting Measures

Suitable extinguishing media:

Dry powder - Use water fog/spray to contain the fire.

Unsuitable extinguishing media

Standard water jet fire hoses can spread the fire and may cause dangerous explosions.

Special exposure hazards in fire:

Danger of explosion in enclosed space - keep nearby gas containers cool with water spray.

Required special protective equipment for fire fighters:

Fires involving gases usually give off TOXIC FUMES and VAPOURS.

Approach fire or gas leaks with caution from upwind and with respiratory protection if available.

6. Accidental Release measures

Personal precautions: If there is a leakage from a small amount of gas, evacuate people from the immediate danger area, and the area of the path of the gas cloud, if possible. Switch off all sources of ignition. No smoking. Isolate leaking container(s), if possible. Stop leak at source. If leakage cannot be stopped, remove container(s) to an isolated area, clear of buildings, people and sources of ignition.

Environmental precautions: If possible allow gas to be released slowly into the atmosphere to produce a harmless dilution. Disperse gas using a hose reel fitted with a water spray or fog nozzle, or by air agitation.

Methods for clearing: Attempts should be made to prevent gas vapours entering drains or gutters. Vapours will disperse to atmosphere if sufficient air flow is available.

Where appropriate refer to information under headings "8. Exposure controls" and "13. Disposal considerations"

7. Handling and Storage

Handling: GoSystem gas cartridges are supplied from the factory in Fibreboard Combination Packages of 12 gas cartridges per package.

Packages should be handled with care and kept upright when transferring the packages.

Storage: the storage of LPG is subject to legislative controls. The primary piece of legislation affecting the storage of LPG is the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972. LPG must be stored in purpose built Containment systems.

LPGA Code of practice 7 should be consulted in order to comply with the legislation (obtainable from HMSO book shops and the LP Gas Association).

8. Exposure Controls

Take measures to prevent:

Physical contact with liquid gas. Exposure to gas vapour in enclosed spaces.

Exposure Control Limits, and source:

Relevant only to unburned gases. The following exposure limits are taken from the health & Safety Executive Guidance Note EH40/2005 Workplace exposure Limits.

Workplace Exposure Limits:

Butane-Propane Gas Mixture (A.O.):

1450 mg/cubic metre (500ppm) 8-hour TWA value.

1910 mg/cubic metre (700ppm) 15-min TWA value.

Liquefied Petroleum Gas:

1750 mg/cubic metre (500ppm) 8-hour TWA value

2160 mg/cubic metre (700ppm) 15-min TWA value.

Respiratory protection:

Should be used if there is a risk of high vapour concentration.

Hand protection:

Use rubber gloves if in contact with liquid.

Skin protection:

Wear protective overalls with long sleeves to protect exposed skin.

Eye protection:

Use goggles or face shield when handling in liquid form.

When used as a fuel source, the above controls will not be necessary.

However, products fuelled by LPG should always be used in well ventilated areas, preferably outdoors.

9. Physical and Chemical Properties

Appearance:

Colourless

Odour:

Distinctive and unpleasant (sterched)

pH:

Neutral

Boiling point/boiling point range:

-42 Deg.C

Flash-point (°C) closed cup:

Less than -40 Deg.C

Flammability (gas/vapour):

Not applicable

AUTOFLAMMABILITY:

410-550 Deg.C

Explosive properties:

Not applicable

Oxidising properties:

Not applicable

Vapour pressure:

4.1 bar @ 20 Deg.C

Relative density:

@ 15 Deg.C 0.55 to 0.58

Solubility (water and fat):

Insoluble

10. Stability & Reactivity

Conditions to avoid:

Sources of ignition (store below 50 Deg.C)

Materials to avoid:

Strong oxidising agents, e.g. chlorates which may be used in agriculture.

Hazardous decomposition:

The substances arising from the thermal decomposition of these products will largely depend on the conditions bringing about the decomposition. The following substances may be expected from normal combustion:

Carbon Dioxide

Polycyclic Aromatic Hydrocarbons

Carbon Monoxide

Unburned Hydrocarbons

Water:

Unidentified Organic and Inorganic Compounds

Particulate Matter:

Nitrogen Oxides

11. Toxicological Information

Acute Health Hazards and Advice:

Liquefied Butane Gases under normal conditions of storage and use are not likely to present a health hazard. The gas is heavier than air and in the event of a spillage will collect in depressions, pits, drains, confined spaces, etc. where it can present a health hazard.

Inhalation

Exposure to higher concentrations of Liquefied Butane Gases can lead to drowsiness, unconsciousness, and subsequent asphyxiation. Very high concentrations can lead to abnormal heart rhythms and possibly death.

Precautions: Inhalation of vapours should be avoided. Where, exceptionally, higher concentrations of vapour are likely to be present, e.g. in the event of a spillage in a badly ventilated area, persons should not be allowed to enter the area, even in an emergency, until the atmosphere has been checked and passed as safe by a competent person.

First Aid: Remove the affected person to fresh air. If breathing has stopped administer artificial respiration. Give external cardiac massage if necessary. Obtain medical assistance immediately.

Skin

Skin contact with Liquefied Butane Gases, occurring as a result of the rapid evaporation of the liquid gas, may result in cold burns.

Precautions: Avoid contact with the skin by the use of suitable protective clothing.

First Aid: Burns should be flushed with water to normalise temperature. Cover the burns with sterile dressings. Do not apply ointments or powders. Obtain medical attention.

Eyes

Eye contact with rapidly evaporating Liquefied Butane Gases may cause cold burns.

Precautions: If there is a risk of eye contact when handling the liquid, sensible eye protection should be used.

First Aid: Burns should be flushed with water to normalise temperature. Cover the eye with a sterile dressing and obtain medical attention immediately.

Ingestion

Whilst this is not a normal hazard associated with Liquefied Butane Gases, abuse by inserting gas containers can result in the liquid being ingested. In these circumstances the hazards are the same as for inhalation.

Precautions: Liquefied gas should never be ingested.

First Aid: Remove the affected person to fresh air. If breathing has stopped, administer artificial respiration. Give external cardiac massage if necessary. If the person is breathing, but unconscious, place in the recovery position. Obtain medical assistance immediately.

Notes for Doctors: No special information.

12. Ecological Information

Possible effects:

No known effects on the environment.

Behaviour:

No known ecological damage will be caused by this product.

Environmental fate:

When released to air, soil and water, the majority of the product will rapidly evaporate.

13. Disposal Considerations

Useful residues/waste product (if any):

No known residues. Waste product: Metal Container.

Safe handling of any residues/waste product:

Any disposal route should comply with local by-laws and the requirements of the Environment Protection Act, 1990. Liquefied Butane Gases are subject to the Control of Pollution (Special Waste) Regulations 1990.

For disposal of surplus quantities of GoSystem gas containers, contact your local supplier, or representative.

14. Transport Information

Classification for carriage:

Flammable gas

ARDRID Proper shipping name:

Mixture of gases listed under 1195(b) Butane (Liquefied Petroleum Gas).

1955 (1075) Mixture A2, NOS, ARD

Preparation identification number:

Land Transport ADR RID

ARDRID Class:

2

UN Number:

2037

Hazard class:

SF

Packing group:

- Combination packages (Fibreboard) - Limited Quantities

Labels:

2.1

Name and description:

RECEPTACLES SMALL CONTAINING GAS (GAS CARTRIDGE)

Labels:

2

UN Number:

2037

Packing group:

- Combination packages (Fibreboard) - Limited Quantities

Labels:

2.1

Name and description:

RECEPTACLES SMALL CONTAINING GAS (GAS CARTRIDGE)

Labels:

2.1

Name and description:

RECEPTACLES SMALL CONTAINING GAS (GAS CARTRIDGE)

15. Regulatory Information

Supply label information: This information has been classified according to the requirements

waste) Regulations 1990.

Dangerous for supply:

Flame

Category of Danger:

Extremely Flammable

Risk Phrases:

R12 Extremely Flammable

Safety Phrases:

S2 Keep out of reach of children

S9 Keep container in a well ventilated place

S16 Keep away from sources of ignition

Applicable EU Provisions and associated UK legislation:

Dangerous substances Directive 67/548/EEC

The Preparations Directive 89/396/EEC

The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 (SI No. 1809) (CHIP2)

The Control of Substances Hazardous to Health (Amendment) Regulations 2004 (COSHH 2004)

16. Other Information

Training advice:

The most important considerations are handling and storage. Code 1 Practice 7, referenced below gives all the necessary information required.

Further information:

Code of Practice 7 Storage of Full and Empty LPG Cylinders and Cartridges.

Croner's Dangerous Substances

Shell Gas Technical and Safety Data Sheet, Shell UK Ltd.

IMCO Guide

Approved Supply List

Other:

ARDRID Regulations

The data contained in this Safety Sheet has been supplied as a requirement by the Chemicals (Hazard Identification and Packaging for Supply) Regulations 2002, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.

GB

ECOGUM GP03