

**SAFETY DATA SHEET**

MAXY GAS

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Compilation date: 29/01/2009

Revision date: 28/11/2012

Revision No: 4

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name: MAXY GAS

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / mixture: \* PC13: Fuels.

**1.3. Details of the supplier of the safety data sheet**

Company name: Advanced Engineering Ltd

Guardian House

Stroudley Road

Basingstoke

Hampshire

RG24 8NL

United Kingdom

Tel: +44(0)1256460300

Fax: +44(0)1256462266

Email: sales@advancedengineering.co.uk

**1.4. Emergency telephone number**

Emergency tel: +44(0)1256854318

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification under CHIP: F+: R12

Classification under CLP: \* Flam. Gas 1: H220; Press. Gas: H280

Most important adverse effects: Extremely flammable.

**2.2. Label elements**

Label elements under CLP:

Hazard statements: \* H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

Signal words: \* Warning

Hazard pictograms: \* GHS02: Flame

GHS04: Gas cylinder



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**Precautionary statements:** \* P102: Keep out of reach of children.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381: Eliminate all ignition sources if safe to do so.

P403: Store in a well-ventilated place.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

**Label elements under CHIP:**

**Hazard symbols:** Extremely flammable.



**Risk phrases:** R12: Extremely flammable.

**Safety phrases:** S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S33: Take precautionary measures against static discharges.

**Precautionary phrases:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

## 2.3. Other hazards

**Other hazards:** \* Extremely flammable. In use, may form flammable / explosive vapour-air mixture. Risk of explosion by shock, friction, fire or other sources of ignition. Heating may cause an explosion.

**PBT:** This substance is not identified as a PBT substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

**\* Hazardous ingredients:**

ACETONE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
200-662-2	67-64-1	F: R11; Xi: R36; -: R66; -: R67	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%

PENTANE

203-692-4	109-66-0	F+: R12; N: R51/53; Xn: R65; -: R66; -: R67	Flam. Liq. 2: H225; Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 2: H411; -: EUH066	1-10%
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**Non-hazardous ingredients:**

[cont...]

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## PETROLEUM GASES, LIQUEFIED

EINECS	CAS	CHIP Classification	CLP Classification	Percent
270-704-2	68476-85-7	F+: R12	Flam. Gas 1: H220; Press. Gas: H280	70-90%

## PROPENE

204-062-1	115-07-1	F+: R12	Flam. Gas 1: H220; Press. Gas: H280	10-30%
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## 1,2-DICHLOROPROPANE

201-152-2	78-87-5	F: R11; Xn: R20/22	Flam. Liq. 2: H225; Acute Tox. 4: H332; Acute Tox. 4: H302	<1%
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## DIMETHYL CARBONATE

210-478-4	616-38-6	F: R11	Flam. Liq. 2: H225	<1%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** \* Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** \* Do not induce vomiting. If unconscious and breathing is OK, place in the recovery position.

**Inhalation:** \* Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. If unconscious and breathing is OK, place in the recovery position. Consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** \* There may be mild irritation at the site of contact.

**Eye contact:** \* There may be irritation and redness.

**Ingestion:** \* There may be irritation of the throat.

**Inhalation:** \* There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

**Delayed / immediate effects:** \* Immediate effects can be expected after short-term exposure. Drowsiness or mental confusion may occur. Headaches or general malaise may result.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** \* Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises. Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** \* Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Do not use water. Use water spray to cool containers.

[cont...]

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## 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Extremely flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** \* Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. Eliminate all sources of ignition. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mechanically ventilate the spillage area whilst avoiding the formation of explosive concentrations - see section 9 of SDS.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** \* Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks.

### 6.4. Reference to other sections

**Reference to other sections:** \* Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** \* Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Earth any equipment used in handling. Smoking is forbidden. Use non-sparking tools.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

**Suitable packaging:** Not applicable.

### 7.3. Specific end use(s)

**Specific end use(s):** \* No special requirement.

## Section 8: Exposure controls/personal protection

[cont...]

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## 8.1. Control parameters

**Hazardous ingredients:**

### ACETONE

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1210 mg/m <sup>3</sup>	3620 mg/m <sup>3</sup>	-	-

### PENTANE

UK	1800 mg/m <sup>3</sup>	-	-	-
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## 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** \* Ensure all engineering measures mentioned in section 7 of SDS are in place. Prevent from entering in public sewers or the immediate environment.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquified gas

**Colour:** Colourless

**Odour:** Pleasant

**Evaporation rate:** \* Fast

**Solubility in water:** Insoluble

**Boiling point/range°C:** \* -0.5

**upper:** 12.8

**Flammability limits %: lower:** 1.8

**Relative density:** >1

### 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** \* Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** \* Stable under normal conditions. Stable at room temperature.

[cont...]

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## 10.3. Possibility of hazardous reactions

**Hazardous reactions:** \* Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.  
Polymerisation may give an explosive energy release.

## 10.4. Conditions to avoid

**Conditions to avoid:** \* Direct sunlight. Heat. Hot surfaces. Sources of ignition. Flames.

## 10.5. Incompatible materials

**Materials to avoid:** \* Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:** Not applicable.

### Symptoms / routes of exposure

**Skin contact:** \* There may be mild irritation at the site of contact.

**Eye contact:** \* There may be irritation and redness.

**Ingestion:** \* There may be irritation of the throat.

**Inhalation:** \* There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

**Delayed / immediate effects:** \* Immediate effects can be expected after short-term exposure. Drowsiness or mental confusion may occur. Headaches or general malaise may result.

**Other information:** \* Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** Not applicable.

### 12.2. Persistence and degradability

**Persistence and degradability:** \* Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** \* No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** \* Highly volatile. Vapour is heavier than air.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not identified as a PBT substance.

[cont...]

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## 12.6. Other adverse effects

**Other adverse effects:** \* Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Incineration on land.

**Recovery operations:** Recycling/reclamation of metals and metal compounds. Use principally as a fuel or other means to generate energy.

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** \* The user's attention is drawn to the possible existence of regional or national regulations regarding disposal. .

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN2037

### 14.2. UN proper shipping name

**Shipping name:** RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)

### 14.3. Transport hazard class(es)

**Transport class:** 2

### 14.4. Packing group

### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** \* No

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** D

**Transport category:** 2

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** \* Not Applicable

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** \* A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

[cont...]

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## Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3:** EUH066: Repeated exposure may cause skin dryness or cracking.

H220: Extremely flammable gas.

H225: Highly flammable liquid and vapour.

H280: Contains gas under pressure; may explode if heated.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

H340: May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H411: Toxic to aquatic life with long lasting effects.

R11: Highly flammable.

R12: Extremely flammable.

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.