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SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : BENEGAS AUTOGAS (LPG)

Product code : Ben-006

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

Application : SU22 Professional use. Institutional use. SU3 Industrial uses. PC13 Fuels for vehicles and

machinery.

1.3. Details of the supplier of the safety data sheet

Supplier : Benegas B.V.

Zuiderzeestraatweg 1

3882 NC Putten, The Netherlands

Telephone : +31 341 723350
E-mail : info@benegas.com
Website : www.benegas.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31 341 723350 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Flammable gas, category 1A. Gases under pressure: Liquefied gas.

(1272/2008/EC)

Human health hazards : Low hazard for usual industrial or commercial handling.

Physical/chemical hazards : Extremely flammable. Contains gas under pressure; may explode if heated.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :





Signal word : Danger

H- and P-phrases : H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. 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.

Additional labelling (for all packaging sizes)

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2.3. Other hazards

Other information : Does not contain PBT or vPvB substances.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture. The 1,3-butadiene content of this product is less than 0.1%.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
1			200-827-9		
Hydrocarbons, C3-4-rich, petroleum distillate	25 - < 50	68512-91-4	270-990-9		

Substance name	Hazard Class	H-phrases	Pictograms
Propane	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04
Hydrocarbons, C3-4-rich, petroleum distillate	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact : In the event of frostbite, rinse copiously with water. Consult a doctor in case burns or irritation

occur.

Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.

Ingestion : Not applicable.

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

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness.

Skin contact : May cause dry skin.

Eye contact : May cause stinging of eyes and redness.

Ingestion : Not applicable.

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Suitable : Do not attempt to extinguish burning gas. If possible shut off the gas supply. Let the fire burn out.

Not suitable : Water jet. Use of heavy stream of water may spread fire.

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5.2. Special hazards arising from the substance or mixture

Special exposure hazards : Closed container may rupture if strongly heated. Unless equipped with release valve. Use water

spray to cool containers exposed to heat.

Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation.

equipment for fire-fighters

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Provide good ventilation. Avoid contact with skin and eyes. Keep away from sources of ignition —

No smoking. Vapour may form an explosive mixture with air. Vapours are heavier than air. Build up

(of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions : Note the wind direction in which the gas is being dispersed. Avoid the formation of a gas cloud.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to

occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Not applicable.

6.4. Reference to other sections

Reference to other sections: See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe vapour. Avoid contact with skin

and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Protect from sunlight. Keep away

from oxidizing agents. Use only in well-ventilated areas. Do not expose gas cylinders with this

product to temperatures exceeding 50°C. Use only in ATEX areas.

Recommended packaging

7.3. Specific end use(s)

Non recommended : PE and PP.

packaging

ackaging

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

: Keep only in the original container.

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8.1. Control parameters

Occupational exposure limits

: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have

not been established for this product.

Workplace exposure limits (mg/m3):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
Propane		1800	-		MAC: BG, PL, CH, SL,
					etc
Hydrocarbons, C3-4-rich, petroleum distillate				asphyxiant	MSDS Exxon Propellant

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with

chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. Respiratory protection Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale

exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance

with EN 140.

Hand protection Insulating gloves.

Eye protection Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Gas. Gas condensed to liquid.

Colour Colourless. Odour Characteristic.

Not applicable. Odourless. Odour threshold Not applicable. Ηα Gas.

Solubility in water Not soluble.

Partition coefficient (n-oc-

tanol/water)

: Not applicable. Not measured. Not relevant for mixtures.

Flash point : -70 °C

Flammability (solid, gas) Extremely flammable.

Auto ignition temperature 460 °C Boiling point/boiling range -43 °C Melting point/melting range : < -60 °C

Explosive properties Not an explosive.

Explosion limits (% in air) : 2,2 - 10

Oxidising properties : Not applicable. Does not contain oxidizing substances.

Decomposition temperature: Not applicable. Kinematic viscosity (20°C) : Not applicable. Viscosity (40°C) Not applicable. Vapour pressure (20°C) : 750000 Pa

Relative vapour density : > 1 (air = 1)

Relative density (20°C) : 0,51 g/ml

Particle characteristics : Not applicable. Liquid.

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9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not

classified - based on available data, the classification criteria are not met. May cause headache,

dizziness and a feeling of sickness.

Corrosion/irritation

: Not classified - based on available data, the classification criteria are not met.

Sensitisation

: Does not contain substances classified as respiratory sensitiser. Not classified - based on available

Carcinogenicity

data, the classification criteria are not met.

: Not expected to be carcinogenic. Not classified - based on available data, the classification criteria

Mutagenicity

are not met.

: Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: no data mg/kg.bw. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on

available data, the classification criteria are not met.

Corrosion/irritation

: Prolonged contact may dry out and defat the skin. Not classified - based on available data, the

classification criteria are not met.

Sensitisation

: Does not contain skin sensitisers. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity

: Not expected to be mutagenic. Not classified - based on available data, the classification criteria

are not met.

Eye contact

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Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

Ingestion

Acute toxicity : Calculated LD50: 2000 mg/kg.bw. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on

available data, the classification criteria are not met.

Aspiration : Not classified - based on available data, the classification criteria are not met. Does not contain

substances with an aspiration hazard.

Corrosion/irritation : Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and

diarrhoea.

Carcinogenicity : Aerosol or mist: Ingestion is unlikely to occur. Not expected to be carcinogenic. Not classified -

based on available data, the classification criteria are not met.

Mutagenicity : Aerosol or mist: Ingestion is unlikely to occur. Not expected to be mutagenic. Not classified - based

on available data, the classification criteria are not met.

Reprotoxicity : Aerosol or mist: Ingestion is unlikely to occur. Development: Not expected to be reprotoxic.

Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the

classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting

: Not applicable.

properties

Other information : No

: Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 68 mg/l. Calculated EC50 (waterflea): mg/l. Contains 0 % of components

with unknown hazards to the aquatic environment. Not classified - based on available data, the

classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability: No specific information known.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Not applicable Evaporates.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting

properties

: Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

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13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers should be recycled or

re-used. Treat product residues and non-empty pack as hazardous waste.

Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

Waste water discharge : Avoid discharge of waste water arising from tank cleaning to the environment.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a

waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be

complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : UN 1965

14.2. UN proper shipping name

Transport name : HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. (PROPANE; Hydrocarbons, C3-4-rich,

petroleum distillate)

Transport name (IMDG, : HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. (Propane ; Hydrocarbons, C3-4-rich,

IATA) petroleum distillate)

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 2
Classification code : F
Packaging group : Danger label : 2,1
Tunnel restriction : B/D

code

2

Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 2 Packaging group : -

EmS (fire / spill) : F - D / S - U

Marine pollutant : No

IATA (air)

Class : 2 ERG code : 10L Packaging group : -

14.6. Special precautions for user

Other information : Country specific variations may apply. For the transport of this product there is no "Limited

Quantity" exemption applicable.

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14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not applicable.

SECTION 15 REGULATORY INFORMATION

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

: Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other Community regulations

regulations. Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety : Not applicable.

assessment

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

: Classification, Labeling & Packaging CLP

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

: European Economic Community **EEC**

GHS : Globally Harmonized System of Classification and Labelling of Chemicals

: International Air Transport Association IATA IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT Product type

Registration, Evaluation, Authorisation and Restriction of Chemicals REACH

Regulations concerning the International Carriage of Dangerous Goods by Rail RID

STP Sewage Treatment Plant

SU Sector of Use

TWA/STEL Time-Weighted Average/Short Term Exposure Limit

UN **United Nations**

UFI Unique formula identifier VOC Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

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Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Flam. Gas 1 : Expert judgement.
Liq. Gas : Expert judgement.
Full text of hazard classes mentioned in section 3:

Flam. Gas 1 : Flammable gas, category 1. Press. Gas : Gases under pressure.

Full text of H-phrases mentioned in section 3:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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