

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 12/06/2017 Revision date: 04/03/2016 Supersedes: 27/10/2014 Version: 2.0

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

### 1.1. Product identifier

Product form	: Substance (UVCB)
Trade name	: MINI CARTRIDGE GAS
Chemical name	: Hydrocarbons, C3-4, Petroleum gas contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8)
EC Index-No.	: 649-199-00-1
EC-No.	: 270-681-9
CAS-No.	: 68476-40-4
Product code	: 521860
Vaporizer	: liquefied gas
Product group	: Trade product

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

#### 1.2.1. Relevant identified uses

Intended for general public	
Main use category	: Consumer use, Professional use
Use of the substance/mixture	: PETROLEUM GASES, LIQUEFIED
Function or use category	: Fuels

#### 1.2.2. Uses advised against

No additional information available

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

VIRAX SAS 39, quai Marne CS 40197 51206 EPERNAY Cedex

Tel: +33 (0)3 26 59 56 56 - Fax:+33 (0)3 26 59 56 60

Contact: hse@virax.com

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

#### **SECTION 2: Hazards identification**

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable gases, Category 1	H220
Gases under pressure : Liquefied gas	H280

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Contains gas under pressure; may explode if heated. Extremely flammable gas.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) :



### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Signal word (CLP)	: Danger
Hazard statements (CLP)	: H220 - Extremely flammable gas H280 - Contains gas under pressure; may explode if heated
Precautionary statements (CLP)	<ul> <li>P102 - Keep out of reach of children 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 - In case of leakage, eliminate all ignition sources P403 - Store in a well-ventilated place P410+P403 - Protect from sunlight. Store in a well-ventilated place P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</li> </ul>

#### 2.3. Other hazards

No additional information available

<b>SECTION 3: Composition</b>	/information on in	gredients		
3.1. Substances				
Substance type	: UVCI	3		
Name	: MINI	CARTRIDGE GAS _521860		
CAS-No.	: 6847	5-40-4		
EC-No.	: 270-6	81-9		
EC Index-No.	: 649-1	99-00-1		
Name		Product identifier	%	
Hydrocarbons, C3-4, Petroleum gas % w/w 1,3-butadiene (EINECS N		(CAS-No.) 68476-40-4 (EC-No.) 270-681-9	100	

(Note K and U) (Note K and U) (EC Index-No.) 649-199-00-1 Note K: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3butadiene (EINECS No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 (Table 3.1) or the S-phrases (2-)9-16 (Table 3.2) should apply. This note applies only to certain complex oil-derived substances in Part 3

Note U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

LPG consists mainly of a mixture of propane and butane. In the commercial composition, it may contain small amounts of other saturated hydrocarbons (ethane, isobutane and pentane) or unsaturated hydrocarbons (propylene and butenes) which present no hazards other than those characteristic of the substance indicated in point 2.

If intended for combustion, it contains a denaturing product, measuring 4 g every 100 kg of LPG, as established by the D.M. 21.3.1996 of the Ministry of Finance.

In addition, LPG may contain an odorant in order to detect the presence already at concentrations below L.I.E. in accordance with L. 6.12.1971, No. 1083.

The odorisation of the gas must be carried out according to UNI 7133 (combustible gas) and according to UNI EN 589 (LPG for self-traction). The aforementioned products are in all cases present at concentrations below the prescribed limits.

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measur	res
First-aid measures general	: Call a poison center or a doctor if you feel unwell. Observe precautions pertaining to confined space access.
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Place under medical observation. Give oxygen or artificial respiration if necessary.</li> </ul>
First-aid measures after skin contact	: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. Rinse skin with water/shower. Take off contaminated clothing. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell. Ingestion unlikely.
<b>4.2. Most important symptoms and</b> No additional information available	l effects, both acute and delayed

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

-	I attention and special treatment needed
Treat symptomatically. SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the su Fire hazard	: Extremely flammable gas.
Hazardous decomposition products in case of	: Toxic fumes may be released.
ire	
5.3. Advice for firefighters	
Firefighting instructions	: Eliminate all ignition sources if safe to do so. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Use water spray or fog for cooling exposed containers. Use water spray/fog to disperse vapours below flammable limit.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Evacuate area. Remove ignition sources. Avoid contact wit skin and eyes. Gas/vapour heavier than air. May accumulate in confined spaces, particularly a or below ground level.
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions Avoid release to the environment. Notify authorit	ties if product enters sewers or public waters.
6.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site. Ventilate well. Contain the extinguishing fluids by bunding.
6.4. Reference to other sections	
For further information refer to section 13.	
For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling	
	: Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminal all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static discharge.
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminal all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	<ul> <li>from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminal all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static discharge.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.</li> </ul>
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includi	<ul> <li>from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminal all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static discharge.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.</li> </ul>
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includi Storage conditions	<ul> <li>from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminal all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static discharge.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.</li> <li><b>ng any incompatibilities</b></li> <li>Protect from sunlight. Store in a well-ventilated place. Keep cool. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment (ATEX). Keep away from</li> </ul>
SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Precautions for safe handling       Precautions for safe handling         Hygiene measures       Precautions for safe storage, includi         7.2.       Conditions for safe storage, includi         Storage conditions       Precautions	<ul> <li>from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminal all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static discharge.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.</li> <li><b>ng any incompatibilities</b></li> <li>Protect from sunlight. Store in a well-ventilated place. Keep cool. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment (ATEX). Keep away from open flames, hot surfaces and sources of ignition. Store in original container.</li> </ul>
SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Precautions for safe handling       Precautions for safe handling         Hygiene measures       Precautions for safe storage, includi         7.2.       Conditions for safe storage, includi         Storage conditions       Precautions	<ul> <li>from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminal all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static discharge.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.</li> <li><b>ng any incompatibilities</b></li> <li>Protect from sunlight. Store in a well-ventilated place. Keep cool. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment (ATEX). Keep away from open flames, hot surfaces and sources of ignition. Store in original container.</li> </ul>

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. The usual precautionary measures are to be adhered to when handling chemicals.

#### Hand protection:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer. Protective gloves

#### Eye protection:

Chemical goggles or face shield

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### Thermal hazard protection:

Contact with the product may cause cold burns or frostbite.

#### Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical provide the second	properties
9.1. Information on basic physical and c	hemical properties
Physical state	: Gas
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -138187 °C Butane - Propane
Freezing point	: No data available
Boiling point	: -420,5 °C Propane - Butane
Flash point	: No data available
Auto-ignition temperature	: 468 - 405 °C Propane - Butane
Decomposition temperature	: No data available
Flammability (solid, gas)	: -10460 °C Propane - Butane Extremely flammable gas
Vapour pressure	: 1,8 - 7,5 bar Propane – Butane ASTM D1267
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,508 - 0,584 kg/l Propane – Butane ASTM D1657
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0,00017 Pa.s Butane
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 1,86 - 2,27 vol %
Upper explosive limit (UEL)	: 8,41 - 11 vol %
9.2. Other information	
Gas group	: Press. Gas (Liq.)

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Extremely flammable gas.

#### 10.2. Chemical stability

Stable under normal conditions.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. **Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological informat	lion
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Contact with the product may cause cold burns or frostbite
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
MINI CARTRIDGE GAS (68476-40-4)	_
Vaporizer	liquefied gas

SECTION 12: Ecological information	ation
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	essment
No additional information available	
10.C Other advance officials	
12.6. Other adverse effects	

### No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

13.1. Waste treatment methods	
Regional legislation (waste)	: Ensure all national/local regulations are observed. Disposal must be done according to official regulations.
Waste treatment methods	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions. Preferred disposal is combustion in a flare system. Following use, do not pierce or burn the packaging, even if it is empty.</li> </ul>
Additional information	: Handle empty containers with care because residual vapours are flammable.
HP Code	<ul> <li>H3-A - 'Highly flammable' :         <ul> <li>liquid substances and preparations having a flash point below 21 °C (including extremely flammable liquids), or</li> <li>substances and preparations which may become hot and finally catch fire in contact with ai at ambient temperature without any application of energy, or</li> <li>solid substances and preparations which may readily catch fire after brief contact with a source of ignition and which continue to burn or to be consumed after removal of the source of ignition, or</li> <li>gaseous substances and preparations which are flammable in air at normal pressure, or</li> <li>substances and preparations which, in contact with water or damp air, evolve highly flammable gases in dangerous quantities.</li> </ul> </li> </ul>
R code/ D code	: R1 - Use principally as a fuel or other means to generate energy

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 2037
UN-No. (IMDG)	: 2037
UN-No. (IATA)	: 2037
UN-No. (ADN)	: 2037
UN-No. (RID)	: 2037
14.2 LIN proper chipping name	

14.2.	UN	proper	shippir	ng name

Proper Shipping Name (ADR)
Proper Shipping Name (IMDG)
Proper Shipping Name (IATA)
Proper Shipping Name (ADN)
Proper Shipping Name (RID)
Transport document description (ADR)
Transport document description (IMDG)
Transport document description (IATA)
Transport document description (ADN)
Transport document description (RID)

# 14.3. Transport hazard class(es) ADR

Transport hazard class(es) (ADR) Danger labels (ADR)

#### IMDG

Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	

: RECEPTACLES, SMALL	, CONTAINING GAS	(GAS CARTRIDGES)
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- : RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
- : Gas cartridges
- : RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
- : RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
- : UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1, (D)
- : UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1
- : UN 2037 Gas cartridges, 2.1
- : UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1
- : UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1
- : 2.1 : 2.1

: 2.1

: 2.1

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 2.1 : 2.1
	2
ADN	
Transport hazard class(es) (ADN)	: 2.1
Danger labels (ADN)	: 2.1
	2
RID	
Transport hazard class(es) (RID)	: 2.1
Danger labels (RID)	: 2.1
0 ( )	
14.4. Packing group	
Packing group (ADR)	: Not established.
Packing group (IMDG)	: Not established.
Packing group (IATA)	: Not established.
Packing group (ADN)	: Not established.
Packing group (RID)	: Not established.
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: 5F
Special provisions (ADR)	: 191, 303, 344
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P003 : PP17, RR6
Special packing provisions (ADR) Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Loading,	: CV9, CV12
unloading and handling (ADR)	
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D
- Transport by sea	
Special provisions (IMDG)	: 191, 277, 303, 344
Limited quantities (IMDG)	: SP277

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

according to Regulation (EC) No. 1907/2006 (REACH) (	with its amendment Regu
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P003
Special packing provisions (IMDG)	: PP17
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 1kg
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 1kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 15kg
Special provisions (IATA)	: A167
ERG code (IATA)	: 10L
- Inland waterway transport	
Classification code (ADN)	: 5F
Special provisions (ADN)	: 191, 303, 344
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: 5F
Special provisions (RID)	: 191, 303, 344
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P003
Special packing provisions (RID)	: PP17, RR6
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW12
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not established.

#### SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with	Hydrocarbons, C3-4, Petroleum gas contains less than 0,1 % w/w 1,3-butadiene (EINECS No
water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric	203-450-8)
solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC)	
No 1272/2008 or not.	

Hydrocarbons, C3-4, Petroleum gas contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8)is not on the REACH Candidate List Hydrocarbons, C3-4, Petroleum gas contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8) is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Ensure all national/local regulations are observed

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### **Chemical safety assessment**

No chemical safety assessment has been carried out

### SECTION 16: Other information

Section	Changed item	Change	Comments	
All sections		Modified		
Abbreviations and	acronyms:			
ADN	European Agreement concernin	g the International Carriage of Dan	gerous Goods by Inland Waterways	
ADR	European Agreement concernin	g the International Carriage of Dan	gerous Goods by Road	
ATE	Acute Toxicity Estimate			
BCF	Bioconcentration factor			
IARC	International Agency for Resear	ch on Cancer		
LC50	Median lethal concentration			
CLP	Classification Labelling Packagi	ng Regulation; Regulation (EC) No	1272/2008	
DMEL	Derived Minimal Effect level			
DNEL	Derived-No Effect Level			
DPD	Dangerous Preparations Directive	/e 1999/45/EC		
DSD	Dangerous Substances Directive	e 67/548/EEC		
EC50	Median effective concentration			
SDS	Safety Data Sheet			
ΙΑΤΑ	International Air Transport Asso	ciation		
IMDG	International Maritime Dangerous Goods			
LD50	Median lethal dose			
LOAEL	Lowest Observed Adverse Effect Level			
NOAEC	No-Observed Adverse Effect Concentration			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
OECD	Organisation for Economic Co-operation and Development			
PBT	Persistent Bioaccumulative Toxic			
PNEC	Predicted No-Effect Concentrati			
REACH	Registration, Evaluation, Author	isation and Restriction of Chemical	s Regulation (EC) No 1907/2006	
RID	Regulations concerning the Inte	rnational Carriage of Dangerous Go	oods by Rail	
STP	Sewage treatment plant			
TLM	Median Tolerance Limit			
Data sources	:	COUNCIL of 16 December 2008 c	B OF THE EUROPEAN PARLIAMENT AND OF THE on classification, labelling and packaging of substances and Directives 67/548/EEC and 1999/45/EC, and amending	
Fraining advice	:	Normal use of this product shall im Follow advice on use, storage, ma	pply use in accordance with the instructions on the packaging intenance and replacement.	
Other information	:	believe are reliable. However, the implied, regarding its correctness. disposal of the product are beyond other reasons, we do not assume	nformation in this SDS was obtained from sources which we information is provided without any warranty, express or The conditions or methods of handling, storage, use or d our control and may be beyond our knowledge. For this and responsibility and expressly disclaim liability for loss, damage	

#### Full text of H- and EUH-statements:

Carc. Not classified	Carcinogenicity Not classified	
Flam. Gas 1	Flammable gases, Category 1	
Muta. Not classified	Germ cell mutagenicity Not classified	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
H220	Extremely flammable gas	
H280	Contains gas under pressure; may explode if heated	

all national/local regulations are observed.

or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. Ensure

SDS EU (REACH Annex II)

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