

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 23-10-2018 Revision date: 25-2-2019 Supersedes: 25-1-2019 Version: 1.2

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

1.1. Product identifier

Product form : Mixture

Trade name : 1001 Penetrating Spray

Product code : PW.10.02 Vaporizer : Aerosol 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 : Industrial use, Professional use, Consumer use

Use of the substance/mixture : Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Putoline Oil Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@putoline.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229 Specific target organ toxicity — Single exposure, Category 3, Narcosis H336 Specific target organ toxicity — Repeated exposure, Category 1 H372 Aspiration hazard, Category 1 H304 Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS08

GHS02

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics; Hydrocarbons, C9-

C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%)

: H222 - Extremely flammable aerosol. Hazard statements (CLP)

H229 - Pressurised container: May burst if heated.

H336 - May cause drowsiness or dizziness.

H372 - Causes damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Safety Data Sheet

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

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

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

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P271 - Use only outdoors or in a well-ventilated area.

P301+P310+P331 - IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122

°F.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%)	(CAS-No.) 64742-82-1; 1174921-79-9 (EC-No.) 919-446-0 (REACH-no) 01-2119458049-33	25 - 80	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
butane (containing < 0,1% butadiene (203-450-8)) substance with national workplace exposure limit(s) (GB)	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32	10 - 25	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Propane substance with a Community workplace exposure limit	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	10 - 25	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	(CAS-No.) 64742-48-9, 1174522-20-3 (EC-No.) 919-857-5 (REACH-no) 01-2119463258-33	2,5 - 20	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after ingestion : Risk of lung oedema.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases.

Safety Data Sheet

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

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe

dust/fume/gas/mist/vapours/spray.

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.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe

dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store

locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage temperature : 5 - 40 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

butane (containing < 0,1% butadiene (203-450-8)) (106-97-8)				
Germany	TRGS 910 Acceptable concentration notes			
United Kingdom	Local name	Butane		
United Kingdom	WEL TWA (mg/m³)	1450 mg/m³		
United Kingdom	WEL TWA (ppm)	600 ppm		
United Kingdom	WEL STEL (mg/m³)	1810 mg/m³		
United Kingdom	WEL STEL (ppm)	750 ppm		
United Kingdom	Remark (WEL)	Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene)		
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE		

Propane (74-98-6)			
EU	IOELV TWA (ppm)	1000 ppm	
Germany	TRGS 910 Acceptable concentration notes		

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Safety Data Sheet

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

Hand protection:	Hand protection:					
Protective gloves	Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard	
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes), 6 (> 480 minutes)	>=0,35		EN ISO 374	

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):





Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Aerosol.

Colour : colourless to slightly yellow.

Odour : characteristic.

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available

Boiling point : $-44 \, ^{\circ}\mathrm{C}$ Flash point : $-97 \, ^{\circ}\mathrm{C}$ Auto-ignition temperature : $270 \, ^{\circ}\mathrm{C}$

Decomposition temperature : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Vapour pressure : 8300 hPa at 20 °C
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 0,698 g/cm³ at 20 °C

Solubility : Water: Insoluble / Slightly miscible

Log Pow : No data available

Viscosity, kinematic : $< 20.5 \text{ mm}^2/\text{s} (40 ^{\circ}\text{C}) - \text{ASTM D7279}$

Viscosity, dynamic : No data available

Explosive properties : Pressurised container: May burst if heated.

Oxidising properties : No data available
Lower explosive limit (LEL) : 0,6 vol %
Upper explosive limit (UEL) : 10,9 vol %

9.2. Other information

VOC content : 523,5 g/l

Safety Data Sheet

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

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

No additional information available

10.6. Hazardous decomposition products

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

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9, 1174522-20-3)			
LD50 oral rat	> 5000 mg/kg (OECD 401 method)		
LD50 dermal rabbit	> 5000 mg/kg (OECD 402 method)		
LC50 inhalation rat (mg/l) > 5000 mg/m³ (OECD 403 method)			

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

1001 Penetrating Spray	
Vaporizer	Aerosol
Viscosity, kinematic	< 20,5 mm²/s (40 °C) - ASTM D7279

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9, 1174522-20-3)			
LC50 fish 1 > 1000 mg/l (Oncorhynchus mykiss, 96h) [OCDE 203]			
EC50 Daphnia 1	> 1000 mg/l (Daphnia magna, 48h) [OCDE 202]		
ErC50 (algae) > 1000 mg/l (Pseudokirchnerella subcapitata, 72h) [OCDE 201]			
12.2. Persistence and degradability			
1001 Penetrating Spray			
Persistence and degradability Biodegradable.			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9, 1174522-20-3)			
Persistence and degradability Readily biodegradable, according to appropriate OECD test.			
12.3. Bioaccumulative potential			
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9, 1174522-20-3)			
Bioconcentration factor (BCF REACH) >= 500			

25-2-2019 (Version: 1.2) EN (English) 5/9

Safety Data Sheet

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

Log Kow >= 4 Octanol/water coefficient

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

European List of Waste (LoW) code : 20 01 13* - solvents

15 01 04 - metallic packaging

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID			
14.1. UN number	4.1. UN number						
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950			
14.2. UN proper shippin	4.2. UN proper shipping name						
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS			
Transport document descr	iption						
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS (- 97°C c.c.)	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS			
14.3. Transport hazard	class(es)						
2.1	2.1	2.1	2.1	2.1			
1 1 1 1 1 1 1 1 1 1	**************************************	₩ 2	¥2				
14.4. Packing group	4.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.5. Environmental hazards							
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes			

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207

Special pooling provisions (ADR) : P287

Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR): MP9Transport category (ADR): 2Special provisions for carriage - Packages (ADR): V14Special provisions for carriage - Loading,: CV9, CV12

unloading and handling (ADR)

Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Safety Data Sheet

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

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Packing instructions (IMDG) : P207, LP200 Special packing provisions (IMDG) : PP87, L2 EmS-No. (Fire) : F-D EmS-No. (Spillage) : S-U Stowage category (IMDG) : None Stowage and handling (IMDG) : SW1, SW22 Segregation (IMDG) · SG69 : -97°C c.c. Flash point (IMDG)

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP200 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W14

Special provisions for carriage - Loading. : CW9, CW12

unloading and handling (RID)

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 applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

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

: 523,5 g/l VOC content

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P3a FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1	150	500
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessmentNo chemical safety assessment has been carried out

SECTION 16: Other information					
Indication of changes:					
Section	Changed i	tem	Change	Comments	
13.1 European L		List of Waste (LoW)	Added		
Abbreviations and acronyms:					
ADN		European Agreement of	concerning the International Carriage	of Dangerous Goods by Inland Waterways	
ADR		European Agreement of	concerning the International Carriage	of Dangerous Goods by Road	
ATE		Acute Toxicity Estimate			
BCF		Bioconcentration factor			
CLP		Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
DMEL		Derived Minimal Effect level			
DNEL		Derived-No Effect Level			
EC50		Median effective concentration			
IARC		International Agency for Research on Cancer			
IATA		International Air Transport Association			
IMDG		International Maritime Dangerous Goods			
LD50		Median lethal dose			
LC50		Median lethal concentr	ation		
LOAEL		Lowest Observed Adve	erse Effect Level		
NOAEC		No-Observed Adverse	Effect Concentration		
NOAEL		No-Observed Adverse Effect Level			
NOEC		No-Observed Effect Co	oncentration		
OECD		Organisation for Econo	mic Co-operation and Development		
PBT		Persistent Bioaccumula	ative Toxic		
PNEC		Predicted No-Effect Co	ncentration		
REACH		Registration, Evaluation	n, Authorisation and Restriction of C	nemicals Regulation (EC) No 1907/2006	
RID		Regulations concerning	g the International Carriage of Dange	erous Goods by Rail	
STP		Sewage treatment plan	ıt		
TLM		Median Tolerance Limi	t		
SDS		Safety Data Sheet			
vPvB		Very Persistent and Ve	ry Bioaccumulative		
Full toxt of U and FIIU					

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	

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

EUH066 Flam. Gas 1 Flammable gases, Category 1 Flam. Liq. 3 Flammable liquids, Category 3 Press. Gas (Comp.) Gases under pressure: Compressed gas STOT RE 1 Specific target organ toxicity — Repeated exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H220 Extremely flammable gas. H222 Extremely flammable aerosol. H226 Flammable liquid and vapour. H229 Pressurised container: May burst if heated. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure.			
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STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H220 Extremely flammable gas. H222 Extremely flammable aerosol. H226 Flammable liquid and vapour. H229 Pressurised container: May burst if heated. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.	Press. Gas (Comp.)	Gases under pressure : Compressed gas	
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EUH066 Repeated exposure may cause skin dryness or cracking.	H411	Toxic to aquatic life with long lasting effects.	
	EUH066	Repeated exposure may cause skin dryness or cracking.	

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