

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 16-5-2018 Revision date: 9-2-2021 Supersedes version of: 4-1-2021 Version: 1.4

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

1.1. Product identifier

Product form : Mixture

: Putoline Degreaser RL Trade name UFI : Q4K0-D02A-W009-8V8K

: PW.20.10 Product code 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

: Industrial use, Professional use Main use category

Use of the substance/mixture Degreaser

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
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
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]

H304 Aspiration hazard, Category 1

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS08

Signal word (CLP) : Danger

Contains : Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.

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

P102 - Keep out of reach of children.

P301+P310+P331 - IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting.

P405 - Store locked up.

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

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

EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

FI IH-statements

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, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS-No.) 64742-47-8 (EC-No.) 926-141-6 (REACH-no) 01-2119456620-43	≥ 80	Asp. Tox. 1, H304
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46-3 (EC-No.) 614-482-0	1 – 2,5	Eye Irrit. 2, H319
2-methylpropan-1-ol substance with national workplace exposure limit(s) (GB)	(CAS-No.) 78-83-1 (EC-No.) 201-148-0 (EC Index-No.) 603-108-00-1 (REACH-no) 01-2119484609-23	0,1 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

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 : No additional information available.

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Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

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 : Combustible liquid.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Incomplete combustion releases dangerous carbon

monoxide, carbon dioxide and other toxic gases.

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.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

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 : Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep in a cool, well-ventilated place away from

heat.

Storage temperature : 0-40 °C

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Putoline Degreaser RL		
EU - Indicative Occupational Exposure Limit (IOEL)		
Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended	5 mg/m3 - ACGIH TLV (inhalable fraction).	

2-methylpropan-1-ol (78-83-1)		
United Kingdom - Occupational Exposure Limits		
Local name	2-Methylpropan-1-ol	
WEL TWA (OEL TWA) [1]	154 mg/m³	
WEL TWA (OEL TWA) [2]	50 ppm	
WEL STEL (OEL STEL)	231 mg/m³	
WEL STEL (OEL STEL) [ppm]	75 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:	
Safety glasses	

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Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

8.2.2.2. Skin protection

Skin and body protection:	
Wear suitable protective clothing	

Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0.35		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

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 Colour : red.

Odour : characteristic.
Odour threshold : No data available

pH : 8
pH solution : 10 vol %
Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable

Freezing point : -45 °C - ASTM D5950 (pour point)

Boiling point : No data available : 72 °C - ASTM D93 (PM) Flash point Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : Not applicable : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available

Density : 0,798 kg/l (15 °C) - ASTM D4052

Solubility : Emulsifiable in water.
Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : 1,6 mm²/s (40 °C) - ASTM D7279

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Viscosity, dynamic : No data available

Explosive properties : Presents no particular fire or explosion hazard.

Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with (strong) oxidizers.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if stored normally.

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

2-methylpropan-1-ol (78-83-1)	
LD50 oral rat	2830 mg/kg
LD50 dermal rabbit	2460 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	24,6 mg/l/4h

Alcohols, C9-11, ethoxylated (68439-46-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)		
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight 24h - (OECD 402 method)	
LC50 Inhalation - Rat	> 5000 mg/m³ 8h - vapours (OECD 403 method)	

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Skin corrosion/irritation : Not classified

pH: 8

Serious eye damage/irritation : Not classified

pH: 8

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

2-methylpropan-1-ol (78-83-1)

STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

2-methylpropan-1-ol (78-83-1)

NOAEL (oral, rat, 90 days) > 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

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

Putoline Degreaser RL	
Viscosity, kinematic	1,6 mm²/s (40 °C) - ASTM D7279

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not rapidly degradable

2-methylpropan-1-ol (78-83-1)		
LC50 - Fish [1] 1430 mg/l (Pimephales promelas, 96h)		
EC50 - Crustacea [1] 1030 mg/l (Daphnia magna, 48h)		
NOEC (chronic) 20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		

Alcohols, C9-11, ethoxylated (68439-46-3)		
LC50 - Fish [1]	1 – 10 mg/l 96h	
EC50 - Crustacea [1]	1 – 10 mg/l 48h	
ErC50 algae 1 – 10 mg/l 72h		

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)			
LC50 - Fish [1]	> 1000 mg/l (OECD 203 method)		
EC50 - Crustacea [1] > 1000 mg/l (OECD 202 method)			

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EC50 72h - Algae [1]	> 1000 mg/l (OECD 201 method)
NOEC chronic crustacea	1,22 g/l (21d)
NOEC chronic algae	1000 mg/l (OECD 201 method)

12.2. Persistence and degradability

	Alcohols, C9-11, ethoxylated (68439-46-3)		
Persistence and degradability Readily biodegradable.		Readily biodegradable.	
	BOD (% of ThOD)	> 60 % ThOD 28 d, Closed Bottle Test (OECD 301D)	

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Biodegradation 69 % (28d) (OECD 301F method)	

12.3. Bioaccumulative potential

2-methylpropan-1-ol (78-83-1)		
Partition coefficient n-octanol/water (Log Pow)	0,79	

Alcohols, C9-11, ethoxylated (68439-46-3)		
Partition coefficient n-octanol/water (Log Pow) 2,4		
Bioaccumulative potential Bioaccumulation unlikely.		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component		
ostance/mixture does not meet the PBT criteria of REACH regulation, annex XIII ostance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not allow into drains or water courses. Dispose of contents/container in accordance with

licensed collector's sorting instructions.

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code : 11 01 99 - wastes not otherwise specified

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

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g name			
Not applicable	Not applicable	Not applicable	Not applicable
class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
ards			
Not applicable	Not applicable	Not applicable	Not applicable
	Not applicable Class(es) Not applicable Not applicable	Not applicable Class(es) Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 0 %
Child-resistant fastening : Applicable
Tactile warning : Applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes:				
Section	Changed item	Change	Comments	
	Revision date	Modified		
	Supersedes	Modified		
1.2	Main use category	Modified		
4.2	Symptoms/effects	Modified		
4.2	Symptoms/effects after ingestion	Modified		
16	Abbreviations and acronyms	Modified		

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
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	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	

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ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet (SDS), EU

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.

EN (English)