



Eurol Brake Cleaner Special

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 31.03.2014 Revision date: 08.01.2024 Supersedes: 10.02.2022 Version: 5.0

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

1.1. Product identifier

Product form : Mixture
Product name : Eurol Brake Cleaner Special
UFI : 35AC-7RDC-T30X-D912
Product code : E302520
Type of product : Detergent, Degreasing cleaning product
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 : Organic solvent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Eurol B.V.
Energiestraat 12
NL-7442 DA Nijverdal
The Netherlands
Tel: +31 548 615 165
reach@eurol.com - www.eurol.com

1.4. Emergency telephone number

Emergency number : For Transport Emergency Call +31 6 26 71 27 43 (24hr/day 7days/week)

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)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	+356 2545 6508	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Single exposure, Category 3, H336
Narcosis

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Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye irritation. 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)



CLP Signal word

: Danger

Contains

: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; Propan-2-ol

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.

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

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

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Child-resistant fastening

: Applicable

Tactile warning

: Applicable

2.3. Other hazards

Other hazards not contributing to the classification : Material can accumulate some static charge during transfer. Flammable or explosive vapour/air mixtures may be formed.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC-No.: 920-750-0 REACH-no: 01-2119473851-33	≥ 50	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
propan-2-ol; isopropyl alcohol; isopropanol substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	25 – 35	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Seek medical attention if ill effect develops. Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area. Allow the victim to rest. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain medical attention if pain, blinking, tears or redness persist. 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	: Do not induce vomiting. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration. Vomiting after ingestion may cause aspiration into the lungs, which may cause severe lungdamage or death. 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 inhalation	: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.
Symptoms/effects after skin contact	: Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.
Symptoms/effects after eye contact	: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs. Contact with the eyes is likely to be irritating. Harmful: may cause lung damage if swallowed. Eye irritation.
Symptoms/effects after ingestion	: Bad taste. Harmful: may cause lung damage if swallowed. Vomiting after ingestion may cause aspiration into the lungs, which may cause severe lungdamage or death. Risk of lung oedema.
Symptoms/effects upon intravenous administration	: Unknown.

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	: carbon dioxide (CO ₂), dry chemical powder, foam. Water fog. Water spray. Dry powder. Foam. Carbon dioxide.
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Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustion generates: CO, CO₂. Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : CO, CO₂.

5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Prevent fire fighting water from entering the environment. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Prevent soil and water pollution. Prevent build-up of electrostatic charges (e.g. by grounding). Remove all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment : When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Emergency procedures : Ventilate spillage area. Consider evacuation. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : No specific measures are necessary.

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Dike for recovery or absorb with appropriate material. Notify authorities if product enters sewers or public waters. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain large spillage with sand or earth. Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Take up large spills with pump or vacuum and finish with dry chemical absorbent. Notify authorities if product enters sewers or public waters.

Other information : Use suitable disposal containers. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations. On water, recover/skim from surface and pour out in disposal container. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: In use, may form flammable vapour-air mixture. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.
Precautions for safe handling	: Avoid prolonged and repeated contact with skin. Do not eat, drink or smoke when using this product. May be dangerously slippery if spilled. Take off contaminated clothing. Where contact with eyes or skin is likely, wear suitable protection. Prevent build-up of electrostatic charges (e.g. by grounding). No naked lights. No smoking. Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
Hygiene measures	: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Where contact with eyes or skin is likely, wear suitable protection. Wash contaminated clothing before reuse. Cloth, paper and other materials that are used to absorb spills present a fire hazard. 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

Technical measures	: Store in a dry place. Store in a closed container. Store away from direct sunlight or other heat sources. Ground/bond container and receiving equipment.
Storage conditions	: Keep only in original container. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Incompatible products	: Reacts vigorously with strong oxidizers and acids.
Maximum storage period	: 5 year
Storage temperature	: ≤ 40 °C
Information on mixed storage	: Keep away from : Oxidizing materials. Strong acids.
Storage area	: Store at ambient temperature.
Special rules on packaging	: Keep container tightly closed and dry.

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

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Ireland - Occupational Exposure Limits	
Local name	Isopropyl alcohol [Propan-2-ol]
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body)

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Regulatory reference	Chemical Agents Code of Practice 2021
Ireland - Biological limit values	
Local name	2-Propanol
BMGV	40 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B (Background), Ns (Non-specific)
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL (OEL STEL) [ppm]	500 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:

Provide for appropriate exhaust ventilation at places of vapours accumulation. Use explosion-proof equipment. Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard. Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn. Large quantities: Contain large spillage with sand or earth. Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. In case of splash hazard: safety glasses. Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields. Eye protection should only be necessary where liquid could be splashed or sprayed. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid repeated or prolonged skin contact. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn. Equipment should conform to EN 166.

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Hand protection:

In case of repeated or prolonged contact wear gloves. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream). The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Other skin protection

Materials for protective clothing:

Neoprene or nitrile rubber gloves. PVC gloves. Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection:

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn. Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

See Heading 12. See Heading 6. Avoid release to the environment.

Consumer exposure controls:

Provide good ventilation in process area to prevent formation of vapour. Neoprene or nitrile rubber gloves. PVC gloves.

Other information:

Do not put the product-soaked rags into the pockets of working clothes. Do not use cloths stained with the product to dry hands. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Liquid.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 82 – 140 °C
Flammability (solid, gas)	: Highly flammable liquid and vapour
Lower explosive limit (LEL)	: 0,9 vol %
Upper explosive limit (UEL)	: 12 vol %
Flash point	: < 10 °C
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 2 mm ² /s
Solubility	: Completely miscible with water.
Log Kow	: Not available
Log Pow	: < 1
Vapour Pressure 20°C	: < 35 hPa
Vapour pressure at 50°C	: Not available
Density	: 0,74 – 0,75 kg/l
Relative density	: Not available
Relative vapour density at 20°C	: > 1 (air = 1)
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : 0,9 – 12 vol %

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : < 0,1

VOC content : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use. Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Keep away from naked flames/heat. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. strong acids.

10.6. Hazardous decomposition products

CO, CO₂.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat
LC50 Inhalation - Rat	> 23,3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

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.

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Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

STOT-single exposure	May cause drowsiness or dizziness.
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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

NOAEC (inhalation, rat, vapour, 90 days)	24,3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
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Aspiration hazard : May be fatal if swallowed and enters airways.

Additional information : May be fatal if swallowed and enters airways

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Viscosity, kinematic	2 mm ² /s
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Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Viscosity, kinematic	0,5 – 1,5 mm ² /s
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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Viscosity, kinematic	2,5 mm ² /s
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

LC50 fish 1	3 – 10 mg/l <i>Leuciscus idus</i> (golden orfe)
EC50 Daphnia 1	4,6 – 10 mg/l
EC50 72h - Algae [1]	10 – 30 mg/l <i>Pseudokirchneriella subcapitata</i>
LOEC (chronic)	0,32 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC (chronic)	0,17 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LC50 fish 1	9640 mg/l (96h; <i>Pimephales promelas</i> [flow-trough])
LC50 fish 2	11130 mg/l (96h; <i>Pimephales promelas</i> [static])
EC50 Daphnia 1	13299 mg/l (48h; <i>Daphnia magna</i>)
EC50 other aquatic organisms 1	> 1000 mg/l (96h; <i>Desmodesmus subspicatus</i>)
EC50 other aquatic organisms 2	> 1000 mg/l (72h; <i>Desmodesmus subspicatus</i>)
EC50 72h - Algae [1]	> 100 mg/l <i>Scenedesmus subspicatus</i>
EC50 96h - Algae [1]	> 1000 mg/l <i>Desmodesmus subspicatus</i>

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12.2. Persistence and degradability

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Persistence and degradability	Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Biodegradation	95 % (21 d; OECD 301E)
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12.3. Bioaccumulative potential

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Log Pow	< 1
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Bioconcentration factor (BCF REACH)	< 100
Log Pow	< 3 Slightly bioaccumulative

12.4. Mobility in soil

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Ecology - soil	Spillages may penetrate the soil causing ground water contamination. Completely miscible with water.
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not discharge into drains or the environment.
Additional information	: Hazardous waste. Flammable vapours may accumulate in the container.
Ecology - waste materials	: When not empty dispose of this container at hazardous or special waste collection point.

SECTION 14: Transport information






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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; Propan-2-ol), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; Propan-2-ol), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1993 Flammable liquid, n.o.s. (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; Propan-2-ol), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; Propan-2-ol), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; Propan-2-ol), 3, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
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 (UN)	: F1
Special provisions (ADR)	: 274, 601, 640D
Limited quantities (ADR 2011)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	:  
Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

Transport by sea

Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2

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Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3H

Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601, 640C
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601, 640C
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: L1.5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(a)	Eurol Brake Cleaner Special ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; propan-2-ol; isopropyl alcohol; isopropanol

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EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	Eurol Brake Cleaner Special ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; propan-2-ol; isopropyl alcohol; isopropanol
3(c)	Eurol Brake Cleaner Special ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
40.	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; propan-2-ol; isopropyl alcohol; isopropanol

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : 100 %

Detergent Regulation (648/2004)

Labelling of contents	
Component	%
aliphatic hydrocarbons	≥30%

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
	Flammability (solid, gas)	Added	
	Tank code (ADR)	Added	
	Packing instructions (ADR)	Added	
	Special provisions for carriage - Operation (ADR)	Added	

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Indication of changes			
Section	Changed item	Change	Comments
	Portable tank and bulk container special provisions (ADR)	Added	
	Portable tank and bulk container instructions (ADR)	Added	
	Mixed packing provisions (ADR)	Added	
	Transport category (RID)	Added	
	Tank codes for RID tanks (RID)	Added	
	Special provisions (RID)	Added	
	Portable tank and bulk container special provisions (RID)	Added	
	Portable tank and bulk container instructions (RID)	Added	
	Packing instructions (RID)	Added	
	Packing group (RID)	Added	
	Mixed packing provisions (RID)	Added	
	Limited quantities (RID)	Added	
	Hazard identification number (RID)	Added	
	Excepted quantities (RID)	Added	
	Colis express (express parcels) (RID)	Added	
	Classification code (RID)	Added	
	Ventilation (ADN)	Added	
	Limited quantities (ADN)	Added	
	Danger labels (ADN)	Added	
	Excepted quantities (ADN)	Added	
	Equipment required (ADN)	Added	
	Classification code (ADN)	Added	
	Carriage permitted (ADN)	Added	
	Number of blue cones/lights (ADN)	Added	
	Tank special provisions (IMDG)	Added	
	Tank instructions (IMDG)	Added	
	Stowage category (IMDG)	Added	
	Special provisions (IMDG)	Added	
	Limited quantities (IMDG)	Added	
	IBC packing instructions (IMDG)	Added	
	Excepted quantities (IMDG)	Added	
	EmS-No. (Spillage)	Added	
	EmS-No. (Fire)	Added	
	Special provisions (IATA)	Added	
	PCA packing instructions (IATA)	Added	

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Indication of changes			
Section	Changed item	Change	Comments
	PCA max net quantity (IATA)	Added	
	PCA limited quantity max net quantity (IATA)	Added	
	PCA Limited quantities (IATA)	Added	
	PCA Excepted quantities (IATA)	Added	
	ERG code (IATA)	Added	
	CAO packing instructions (IATA)	Added	
	CAO max net quantity (IATA)	Added	
	Vehicle for tank carriage	Added	
	Danger labels (IMDG)	Added	
	Danger labels (ICAO)	Added	
	Type of product	Added	
	UN-No. (RID)	Added	
1.1	UFI on SDS 1.1	Added	
1.1	Product form	Added	
1.1	Product group	Added	
1.2	Use of the substance/mixture	Added	
1.2	Main use category	Added	
1.2	Intended for general public	Added	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Added	
2.1	Intended for general public	Added	
2.2	S-phrases	Added	
2.2	Precautionary statements (CLP)	Added	
2.2	Hazard statements (CLP)	Added	
2.2	CLP Signal word	Added	
2.2	Hazard pictograms (CLP)	Added	
2.3	Other hazards not contributing to the classification	Added	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Added	
4.1	First-aid measures after skin contact	Added	
4.1	First-aid measures after inhalation	Added	
4.1	First-aid measures after ingestion	Added	
4.1	First-aid measures after eye contact	Added	
4.2	Symptoms/effects	Added	

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Indication of changes			
Section	Changed item	Change	Comments
4.2	Symptoms/injuries after ingestion	Added	
4.2	Symptoms/injuries after eye contact	Added	
4.2	Symptoms/injuries upon intravenous administration	Added	
4.2	Symptoms/injuries after skin contact	Added	
4.2	Symptoms/effects after inhalation	Added	
4.3	Treatment	Added	
5.1	Suitable extinguishing media	Added	
5.1	Unsuitable extinguishing media	Added	
5.2	Fire hazard	Added	
5.2	Hazardous decomposition products in case of fire	Added	
5.2	Explosion hazard	Added	
5.3	Protection during firefighting	Added	
5.3	EAC code	Added	
5.3	Precautionary measures fire	Added	
5.3	Firefighting instructions	Added	
5.3	Other information	Added	
6.1	Protective equipment	Added	
6.1	Emergency procedures	Added	
6.1	Emergency procedures	Added	
6.1	Protective equipment	Added	
6.1	General measures	Added	
6.2	Environmental precautions	Added	
6.3	For containment	Added	
6.3	Methods for cleaning up	Added	
6.3	Other information	Added	
6.4	Reference to other sections (8, 13)	Added	
7.1	Precautions for safe handling	Added	
7.1	Hygiene measures	Added	
7.1	Additional hazards when processed	Added	
7.2	Technical measures	Added	
7.2	Storage conditions	Added	
7.2	Incompatible products	Added	
7.2	Storage temperature	Added	
7.2	Storage area	Added	
7.2	Prohibitions on mixed storage	Added	
7.2	Maximum storage period	Added	
7.2	Special rules on packaging	Added	

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Indication of changes			
Section	Changed item	Change	Comments
8.2	Environmental exposure controls	Added	
8.2	Eye protection	Added	
8.2	Appropriate engineering controls	Added	
8.2	Other information	Added	
8.2	Consumer exposure controls	Added	
8.2	Respiratory protection	Added	
8.2	Personal protective equipment	Added	
8.2	Materials for protective clothing	Added	
8.2	Hand protection	Added	
8.2	Skin and body protection	Added	
9.1	Upper explosive limit (UEL)	Added	
9.1	Lower explosive limit (LEL)	Added	
9.1	Viscosity, kinematic	Added	
9.1	Solubility	Added	
9.1	Vapour Pressure 20°C	Added	
9.1	Physical state	Added	
9.1	Relative vapour density at 20°C	Added	
9.1	Relative evaporation rate (butylacetate=1)	Added	
9.1	Odour	Added	
9.1	Melting point	Added	
9.1	Log Pow	Added	
9.1	Flash point	Added	
9.1	Explosive limits (vol %)	Added	
9.1	Boiling point	Added	
9.1	Auto-ignition temperature	Added	
9.1	Appearance	Added	
9.1	Density	Added	
9.2	VOC content	Added	
10.1	Reactivity	Added	
10.2	Chemical stability	Added	
10.3	Possibility of hazardous reactions	Added	
10.4	Conditions to avoid	Added	
10.5	Incompatible materials	Added	
10.6	Hazardous decomposition products	Added	
11	Reason for no classification	Added	
11	Additional information	Added	
11	Reason for no classification	Added	
11	Additional information	Added	

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Indication of changes			
Section	Changed item	Change	Comments
11	Reason for no classification	Added	
11	Additional information	Added	
11.1	Additional information	Added	
12.1	Ecology - general	Added	
12.2	Persistence and degradability	Added	
12.3	Bioaccumulative potential	Added	
12.3	Log Pow	Added	
12.4	Ecology - soil	Added	
13.1	Product/Packaging disposal recommendations	Added	
13.1	Additional information	Added	
13.1	Waste disposal recommendations	Added	
13.1	Regional legislation (waste)	Added	
13.1	Ecology - waste materials	Added	
14.1	UN-No. (ADN)	Added	
14.1	UN-No.	Added	
14.1	UN-No. (IMDG)	Added	
14.1	UN-No. (ICAO)	Added	
14.3	Danger labels (UN)	Added	
14.3	Class (UN)	Added	
14.3	Danger labels (RID)	Added	
14.4	Packing group (ADN)	Added	
14.4	Packing group (IMDG)	Added	
14.4	Packing group (IATA)	Added	
14.4	Packing group (UN)	Added	
14.6	Special provisions (ADR)	Added	
14.6	Special provisions (ADN)	Added	
14.6	Packing instructions (IMDG)	Added	
14.6	Classification code (UN)	Added	
14.6	Hazard identification number (Kemler No.)	Added	
14.6	Transport category (ADR)	Added	
14.6	Limited quantities (ADR)	Added	
14.6	Excepted quantities (ADR)	Added	
14.6	Tunnel restriction code	Added	
15.1	REACH Annex XVII	Added	
15.1	VOC content	Added	
15.2	Chemical safety assessment	Added	
16	Abbreviations and acronyms	Added	

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Indication of changes			
Section	Changed item	Change	Comments
16	Data sources	Added	
16	Other information	Added	

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)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS-No.	Chemical Abstract Service number
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disrupting properties
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
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)

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Abbreviations and acronyms:

TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 2	H411	Calculation method

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.