

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**

Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**

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

1.1. Product identifier

Product name

Winzol Allesdichterspray schwarz

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

Relevant identified uses

Sealant. Corrosion protection.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Supplier

WINKEL GmbH

Lisztstraße 1

53881 Euskirchen - Germany

Tel.: +49 2251 77 69 400-401

Fax: +49 2251 77 69 402

E-Mail: info@winkelgroup.de

Internet: www.winkelgroup.de

1.4. Emergency telephone number

Emergency

112

Supplier

+49 2251 77 69 400-401

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Aerosol 1; H222 Extremely flammable aerosol.

Aerosol 1; H229 Pressurised container: May burst if heated.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

2.2 Label elements

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



Signal word: **Danger**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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.

P273 Avoid release to the environment.

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

P302 + P352 + P362 + P364 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

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

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with national regulation.

2.2.2. Contains:

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (CAS: 64742-49-0, EC: 927-510-4)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product description

Hydrocarbons with a propellant.

3.1. Substances

For mixtures see 3.2.

SAFETY DATA SHEET according to Regulation 1907/2006Product name: **Winzol Alledichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
dimethyl ether	115-10-6 204-065-8 603-019-00-8	25-50	Flam. Gas 1; H220 Press. Gas; H280		01-2119472128-37
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 927-510-4 -	10-50	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411		01-2119475515-33
ethyl methyl ketone	78-93-3 201-159-0 606-002-00-3	2,5-10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		01-2119457290-43
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	- 920-750-0 -	2,5-10	Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411		01-2119473851-33
cyclohexane	110-82-7 203-806-2 601-017-00-1	2,5-10	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		-
ethyl acetate	141-78-6 205-500-4 607-022-00-5	2,5-10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		-
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	- 921-024-6 -	<2,5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411		01-2119475514-35
hydrocarbons, C9, aromatics	64742-95-6 918-668-5 -	<2,5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066		01-2119455851-35
n-hexane	110-54-3 203-777-6 601-037-00-0	<1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	STOT RE 2; H373: C ≥ 5 %	-

SECTION 4. FIRST AID MEASURES**4.1. Description of first aid measures**General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.
No action shall be taken involving any personal risk or without suitable training.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Alledichterspray schwarz**

Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**

Following inhalation

If symptoms occur, seek medical advice. Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If breathing is irregular or respiratory arrest occurs provide artificial respiration. In case of unconsciousness bring patient into stable side position and seek medical attention.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Not likely. Accidental ingestion: Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label. Never give anything by mouth to an unconscious person.

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

Inhalation

Vapours may cause drowsiness and dizziness.
Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.
Coughing, sneezing, nasal discharge, labored breathing.

Skin contact

Irritating to the skin.
Itching, redness, pain.

Eye contact

Strongly irritates the eyes.
Redness, tearing, pain.

Ingestion

Ingestion is unlikely because it is an aerosol.
Accidental ingestion:
May cause nausea/vomiting and diarrhea.
May be fatal if swallowed and enters airways.

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

-

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. In case of fire aerosols can explode and be propelled to considerable distances in different directions.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Alledichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unauthorised personnel. Prevent access to unprotected personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

6.1.2. For emergency responders

Use personal protective equipment.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Stem the spill if this does not pose risks.

6.3.2. For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor. Release of liquid because of damaged aerosol can (release of large quantities): Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Do not absorb spillage with sawdust or other combustible material. Dispose in accordance with applicable regulations (see Section 13). Clean residue from spill site.

6.3.3. Other information

See Section 7: safe handling.

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - no smoking. Use spark-proof tools. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Avoid release to the environment.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Alledichterspray schwarz**

Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**

7.1.2. Advice on general occupational hygiene

Wear suitable protective equipment; see Section 8. Refer to instructions on label and regulations for safety and health at work. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Consider measures required in Section 8 of this safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in well closed containers. Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs.

7.2.2. Packaging materials

The original container of producer.

7.2.3. Requirements for storage rooms and vessels

Do not store in unlabelled containers.

7.2.4. Storage class

-

7.2.5. Further information on storage conditions

-

7.3. Specific end use(s)

Recommendations

-

Industrial sector specific solutions

-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
Butan-2-one (methyl ethyl ketone) (78-93-3)	200	600	300	899	Sk, BMGV	70 µmol butan-2-one/L in urine - Post shift
Cyclohexane (110-82-7)	100	350	300	1050		
Dimethyl ether (115-10-6)	400	766	500	958		
Ethyl acetate (141-78-6)	200	734	400	1468		
n-Hexane (110-54-3)	20	72	-	-		

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Alledichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
dimethyl ether (115-10-6)	Worker	inhalation	long term (systemic effects)	1894 mg/m ³	
dimethyl ether (115-10-6)	Consumer	inhalation	long term (systemic effects)	471 mg/m ³	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Worker	inhalation	long term (systemic effects)	2085 mg/m ³	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Worker	dermal	long term (systemic effects)	300 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	inhalation	long term (systemic effects)	447 mg/m ³	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	dermal	long term (systemic effects)	149 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	oral	long term (systemic effects)	149 mg/kg bw/day	

8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
dimethyl ether (115-10-6)	fresh water	0,155 mg/L	
dimethyl ether (115-10-6)	marine water	0,016 mg/L	
dimethyl ether (115-10-6)	water, intermittent release	1,549 mg/L	fresh water
dimethyl ether (115-10-6)	water treatment plant	160 mg/L	
dimethyl ether (115-10-6)	fresh water sediment	0,681 mg/kg	dry weight
dimethyl ether (115-10-6)	marine water sediment	0,069 mg/kg	dry weight
dimethyl ether (115-10-6)	soil	0,045 mg/kg	dry weight

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation.

Organisational measures to prevent exposure

If this product contains ingredients with exposure limits, personal, workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

8.2.2. Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374).

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. If the concentration limit values are exceeded, it is necessary to wear appropriate respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

-

8.2.3. Environmental exposure controls

Technical measures to prevent exposure

Prevent exposure in the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	Physical state:	liquid; aerosol
-	Colour:	black
-	Odour:	

Important health, safety and environmental information

-	pH	No information.
-	Melting point/freezing point	No information.
-	Initial boiling point/boiling range	No information.
-	Flash point	No information.
-	Evaporation rate	No information.
-	Flammability (solid, gas)	No information.
-	Explosion limits (vol%)	3,3 – 26,2 vol %
-	Vapour pressure	60 hPa at 20 °C 306 hPa at 50 °C
-	Vapour density	No information.
-	Density	Density: 0,9357 g/cm ³
-	Solubility	No information.
-	Partition coefficient	No information.
-	Auto-ignition temperature	No information.
-	Decomposition temperature	No information.
-	Viscosity	No information.
-	Explosive properties	No information.
-	Oxidising properties	No information.

9.2. Other information

-	Remarks:	
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**

Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**

10.3. Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

10.4. Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not expose to heat and direct sunlight.

10.5. Incompatible materials

Oxidants.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

Name	Exposure route	Type	Species	Time	Value	Method	Remark
dimethyl ether (115-10-6)	Inhalation (gases)	LC ₅₀	rat	4 h	309 mg/l		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	oral	LD ₅₀	rat		> 5840 mg/kg bw		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	dermal	LD ₅₀	rat		> 2920 mg/kg		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	LC ₅₀	rat	4 h	> 23,3 mg/l		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	dermal	LD ₅₀	rat	24 h	> 2920 mg/kg bw		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation (vapours)	LC ₅₀	rat	4 h	> 23300 mg/m ³	OECD 403	
ethyl methyl ketone (78-93-3)	oral	LD ₅₀	rat		> 2193 mg/kg	OECD 423	
ethyl methyl ketone (78-93-3)	dermal	LD ₅₀	rabbit		> 5000 mg/kg	OECD 402	
ethyl methyl ketone (78-93-3)	inhalation	LC ₅₀	rat	4 h	34 mg/l		
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (-)	oral	LD ₅₀	rat		> 5000 mg/kg		
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (-)	dermal	LD ₅₀	rabbit		> 2800 mg/kg		
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (-)	inhalation	LC ₅₀	rat		> 23,3 mg/l		
cyclohexane (110-82-7)	oral	LD ₅₀	rat		12705 mg/kg		
cyclohexane (110-82-7)	inhalation	LC ₅₀	rabbit		89600 mg/l		
ethyl acetate (141-78-6)	oral	LD ₅₀	rabbit		4935 mg/kg		
ethyl acetate (141-78-6)	inhalation	LC ₅₀	rat	4 h	1600 mg/l		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (-)	oral	LD ₅₀	rat		> 5840 mg/kg		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (-)	dermal	LD ₅₀	rabbit		> 2920 mg/kg		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (-)	inhalation	LC ₅₀	rat	4 h	> 25,2 mg/l		
hydrocarbons, C9, aromatics (64742-95-6)	oral	LD ₅₀	rat		3592 mg/kg		
hydrocarbons, C9, aromatics (64742-95-6)	dermal	LD ₅₀	rabbit		> 3160 mg/kg		
hydrocarbons, C9, aromatics (64742-95-6)	inhalation	LC ₅₀	rat	4 h	> 6193 mg/l		

(b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
dimethyl ether (115-10-6)			May cause frostbite.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Irritating.		
ethyl methyl ketone (78-93-3)	rabbit		No irritant effect.	OECD 404	Repeated exposure may cause skin dryness or cracking.

Additional information: Causes skin irritation.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Alledichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

(c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Not classified.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Contact with eyes may cause irritation.		
ethyl methyl ketone (78-93-3)	rabbit		Irritating.	OECD 405	

Additional information: Causes serious eye irritation.

(d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
ethyl methyl ketone (78-93-3)	dermal	guinea pig		Non sensitising.	OECD 406	Buehler test

(e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
dimethyl ether (115-10-6)				The chemical is not classified as mutagenic.		
dimethyl ether (115-10-6)	in-vitro mutagenicity			Negative.	OECD 471	Ames test
dimethyl ether (115-10-6)	in-vitro mutagenicity	Human (lymphocytes)		Negative.	cytogenetic test	OECD 473
dimethyl ether (115-10-6)	in-vivo mutagenicity	<i>Drosophila melanogaster</i>		Negative.	OECD 477	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Genotoxicity			Negative.		
ethyl methyl ketone (78-93-3)	in-vitro mutagenicity			Negative.		
ethyl methyl ketone (78-93-3)	in-vivo mutagenicity			Negative.		
ethyl methyl ketone (78-93-3)	in-vitro mutagenicity	rat		Negative.	OECD 473	DNA test on rat hepatocytes
ethyl methyl ketone (78-93-3)	in-vitro mutagenicity	mouse (lymphoma cells)		Negative.	OECD 476	
ethyl methyl ketone (78-93-3)	in-vitro mutagenicity	Salmonella typhimurium		Negative.	OECD 471	
ethyl methyl ketone (78-93-3)	in-vivo mutagenicity	mouse		Negative.	OECD 474	

(f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
dimethyl ether (115-10-6)						Substance is not classified as carcinogenic.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)						Substance is not classified as carcinogenic.		
ethyl methyl ketone (78-93-3)						Not expected to be carcinogenic.		

SAFETY DATA SHEET according to Regulation 1907/2006Product name: **Winzol Allesdichterspray schwarz**Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**(g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
dimethyl ether (115-10-6)	Reproductive toxicity	inhalation	rat		47 mg/L	Animal testing did not show any effects on fertility.	OECD 452	
dimethyl ether (115-10-6)	Maternal toxicity	NOAEL	rat		5000 ppm			Inhalation
dimethyl ether (115-10-6)	Teratogenicity	NOAEL	rat		40000 ppm			Inhalation
dimethyl ether (115-10-6)	Developmental toxicity	NOAEL	rat		40000 ppm			Inhalation
dimethyl ether (115-10-6)	-	NOAEL	rat		20000 ppm		OECD 414	inhalation (vapor), embryo-fetal development
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Reproductive toxicity	-	rat			The results of animal studies gave no indication of a fertility impairing effect.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Developmental toxicity		rat			Did not show teratogenic effects in animal experiments.		
ethyl methyl ketone (78-93-3)	Teratogenicity					Tests on animals have shown no effects on the fetus.		
ethyl methyl ketone (78-93-3)						Reproductive toxicity is not expected.		
ethyl methyl ketone (78-93-3)	Teratogenicity	NOAEC	rat	18 days	1002 ppm	It does not meet the criteria for classification.	OECD 414	7 h per day
ethyl methyl ketone (78-93-3)	Teratogenicity	LOAEC	rat	18 days	3000 ppm	Decrease in body weight	OECD 414	7 h per day
n-hexane (110-54-3)	Reproductive toxicity	-				Suspected of damaging fertility.		

Summary of evaluation of the CMR properties

No information.

SAFETY DATA SHEET according to Regulation 1907/2006Product name: **Winzol Alledichterspray schwarz**Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**(h) STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					May cause effects on the central nervous system.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					Symptoms: nausea, unconsciousness.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					Symptoms: mucous membrane irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					May cause respiratory irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	oral	-					May cause irritation of the digestive tract.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	-	-					May cause drowsiness or dizziness.		
ethyl methyl ketone (78-93-3)	inhalation	-			central nervous system		May cause drowsiness or dizziness.		

Additional information: May cause drowsiness or dizziness.(i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
dimethyl ether (115-10-6)	Repeated dose toxicity	NOEL	rat	2 years		47 mg/L		OECD 452	inhalation
ethyl methyl ketone (78-93-3)	Repeated dose toxicity	NOAEC	rat	4 months		5041 ppm	Repeated exposure: no effects.	OECD 413	inhalation (vapours); 6 h per day
ethyl methyl ketone (78-93-3)	inhalation	-					Exposure to high concentrations of vapours may cause headaches, dizziness and nausea.		
ethyl methyl ketone (78-93-3)	dermal	-					Repeated or prolonged exposure may cause dermatitis.		

(j) Aspiration hazard

Name	Result	Method	Remark
dimethyl ether (115-10-6)	Aspiration hazard: Not Classified.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Aspiration into the lungs can cause lung damage.		The exposed person should be kept under medical surveillance for 48 hours.
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	May be fatal if swallowed and enters airways.		
ethyl methyl ketone (78-93-3)	Aspiration hazard: Not Classified.		

Additional information: May be fatal if swallowed and enters airways.**SECTION 12. ECOLOGICAL INFORMATION****12.1. Toxicity**

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **Winzol Allesdichterspray schwarz**

Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**



12.1.1. Acute (short-term) toxicity

For components

SAFETY DATA SHEET according to Regulation 1907/2006

 Product name: **Winzol Allesdichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
dimethyl ether (115-10-6)	LC ₅₀	> 4,1 mg/L	96 h	fish	<i>Poecilia reticulata</i>		Semi-Static system
	EC ₅₀	> 4,4 mg/L	48 h	crustacea	<i>Daphnia magna</i>		static test
	LC ₅₀	755,5 mg/L	48 h	<i>Daphnia</i>		ECOSAR	
	EC ₅₀	154,9 mg/L	96 h	algae		ECOSAR	
	EC ₁₀	> 1600 mg/L		bacteria	<i>Pseudomonas putida</i>		static test
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	EL ₅₀	10 – 30 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		
	ErL50	10 – 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	EbL50	10 – 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	EL ₅₀	3 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	LL ₅₀	> 13,4 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	
	NOELR	6,3 mg/L	72 h	<i>Pseudokirchneriella subcapitata</i>		OECD 201	
ethyl methyl ketone (78-93-3)	LC ₅₀	2993 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD 203	static test
	EC ₅₀	308 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	static test
	EC ₅₀	1972 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	static test
	EC0	1150 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>	DIN 38412	static test
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (-)	EL ₅₀	3 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EL ₅₀	10 – 30 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		
	LL ₅₀	> 13,4 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (-)	EC ₅₀	10 mg/L	48 h	algae	Phaeophyta		
	EL ₅₀	3 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EL ₅₀	30 – 100 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		
	LL ₅₀	11,4 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
hydrocarbons, C9, aromatics (64742-95-6)	EC ₅₀	7,4 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EL ₅₀	3,2 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EL ₅₀	2,9 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		
	LL ₅₀	9,2 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**

Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

12.1.2. Chronic (long-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	NOELR	1 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	
	NOELR	1,53 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>		QSAR Petrotox

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

For components

Substance (CAS Nr.)	Environment	Type / Method	Half Time	Evaluation	Method	Remark
ethyl methyl ketone (78-93-3)	water	hydrolysis		not expected		
ethyl methyl ketone (78-93-3)	Air	photodegradation		Photolysis not expected		

12.2.2. Biodegradation

For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
dimethyl ether (115-10-6)	aerobic	5 %	28 days	not readily biodegradable	OECD 301 D	activated sludge
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	biodegradability	98 %	28 days	readily biodegradable	OECD 301F	
ethyl methyl ketone (78-93-3)	biodegradability	98 %	28 days	readily biodegradable	OECD 301 D	

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
ethyl methyl ketone (78-93-3)	Log Pow	0,3	40 °C			

12.3.2. Bioconcentration factor (BCF)

No information.

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

For components

Substance (CAS Nr.)	Value	Temperature	Concentration	Method	Remark
ethyl methyl ketone (78-93-3)	24,8 mN/m	20 °C			

12.4.3. Adsorption/Desorption

For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
dimethyl ether (115-10-6)	Soil			Moderate mobility in soil		
ethyl methyl ketone (78-93-3)	Water			Partially soluble.		

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**
Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Toxic to aquatic life with long lasting effects.
Water hazard class (WGK): 3 (Self-assessment), very hazardous for water.
Avoid release to the environment.

For components

Substance: dimethyl ether

Bioaccumulation is not expected.
This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Substance: hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Substance: ethyl methyl ketone

Does not bioaccumulate.
Mobile in soil.
This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Do not allow to reach ground water, water bodies or sewage systems.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Avoid release to the environment. Product and container must be disposed of safely. Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

16 05 04* - gases in pressure containers (including halons) containing dangerous substances

Packaging

Uncleaned containers should not be perforated, cut or welded. Pressurized container. Do not pierce or burn, even after use. Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

15 01 11* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **Winzol Allesdichterspray schwarz**
Creation date: 27.11.2017 · Revision: 13.9.2019 · Version: 1



SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

IMDG name: AEROSOLS (cyclohexane)

14.3. Transport hazard class(es)

2

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

14.6. Special precautions for user

Limited quantities

1 L

Tunnel restriction code

(D)

IMDG EmS

F-D, S-U

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

Goods may not be carried in bulk in bulk containers, containers or vehicles.



SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

-

Abbreviations and acronyms

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Alledichterspray schwarz**

Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**

ATE - Acute Toxicity Estimate
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC₅₀ - Lethal Concentration to 50 % of a test population
LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Winzol Allesdichterspray schwarz**

Creation date: **27.11.2017** · Revision: **13.9.2019** · Version: **1**

SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

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List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure .
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.