

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024
Print date: 25 Mar 2025
Version: 0.2



Page 1/21

REDOCOL Gray Haze Remover

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

1.1. Product identifier

Trade name/designation:

REDOCOL Gray Haze Remover

Article No.:
GR100001

UFI:
8JXW-98Y6-P000-A6XR

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

Use of the substance/mixture:

Surface treatment of Wood and other materials

Relevant identified uses:

Life cycle stage [LCS]

IS: Use at industrial sites

Sector of uses [SU]

SU 6a: Manufacture of wood and wood products

SU 18: Manufacture of furniture

Article categories [AC]

AC 11e: Wood articles: Furniture & furnishings

1.3. Details of the supplier of the safety data sheet

distributor:

Ostermann UK Ltd
Stonebridge Cross Business Park
Unit 104 Pointon Way
WR9 0LW Droitwich
United Kingdom
Telephone: UK +44 (0) 1905 793 550, Ireland +44 (0) 1905 793 552
Telefax: +44 (0) 1905 793 559
E-mail: UK sales.uk@ostermann.eu, Ireland sales.ie@ostermann.eu
Website: www.ostermann.eu

Supplier:

FSG Schäfer GmbH
Boschstraße 14
48703 Stadtlonn
GERMANY
Telephone: +49 (0) 25 63 - 93 95 - 0
Telefax: +49 (0) 25 63 - 93 95 - 25
E-mail: verkauf@fsg-schaefer.de
Website: www.fsg-schaefer.de

E-mail (competent person): sds@ostermann.eu

1.4. Emergency telephone number

UK: For non-emergency personnel: +44 1905 793 550
IR: For non-emergency personnel: +44 1905 793 552, 24h: +49 30 - 30 68 67 00 (National Poison Inform. Centre Berlin) , UK +44 1905 793 550 / IR +44 (0)1905 793 552 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 2/21

REDOCOL Gray Haze Remover

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

4-methylpentan-2-one; toluene; butan-1-ol; 2-methylpropan-1-ol

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
Hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/Personal protection.
Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water/Hands that came in contact with the product.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/First aider.
Precautionary statements Storage	
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Precautionary statements Disposal	
P501	Dispose of contents/container to Disposal methods.

2.3. Other hazards

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 3/21

REDOCOL Gray Haze Remover

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 115-10-6 EC No.: 204-065-8 REACH No.: 01-2119472128-37	dimethyl ether Substance with a community workplace exposure limit. Acute Toxicity Estimate ATE (inhalation, gases) 164,000 ppmV	≥ 50 - < 70 weight-%
CAS No.: 123-86-4 EC No.: 204-658-1 Index No.: 607-025-00-1 REACH No.: 01-2119485493-29-0007	n-butyl acetate Flam. Liq. 3 (H226), STOT SE 3 (H336) Warning EUH066 Acute Toxicity Estimate ATE (dermal) > 14,112 mg/kg	≥ 10 - < 25 weight-%
CAS No.: 141-78-6 EC No.: 205-500-4 Index No.: 607-022-00-5 REACH No.: 01-2119475103-46	ethyl acetate Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066 Acute Toxicity Estimate ATE (oral) 5,620 mg/kg ATE (dermal) > 20,000 mg/kg	≥ 10 - < 25 weight-%
CAS No.: 71-36-3 EC No.: 200-751-6 Index No.: 603-004-00-6 REACH No.: 01-2119484630-38-0000	butan-1-ol Acute Tox. 4 (H302), Eye Dam. 1 (H318), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) 500 mg/kg	≥ 10 - < 25 weight-%
CAS No.: 108-10-1 EC No.: 203-550-1 Index No.: 606-004-00-4 REACH No.: 01-2119473980-30	4-methylpentan-2-one Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066 Acute Toxicity Estimate ATE (oral) > 2,000 - ≤ 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) 11 mg/L	≥ 10 - < 25 weight-%
CAS No.: 1330-20-7 EC No.: 215-535-7 Index No.: 601-022-00-9 REACH No.: 01-2119488216-32	xylene Acute Tox. 4 (H332, H312), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315) Warning Acute Toxicity Estimate ATE (oral) 4,300 mg/kg ATE (dermal) > 1,700 mg/kg ATE (inhalation, dust/mist) 21.7 mg/L	< 2.5 weight-%
CAS No.: 100-41-4 EC No.: 202-849-4 Index No.: 601-023-00-4 REACH No.: 01-2119489370-35	ethylbenzene Acute Tox. 4 (H332), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT RE 2 (H373) Danger Additional information: H373 Hörorgane	< 2.5 weight-%
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21-XXXX	propane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger Acute Toxicity Estimate ATE (inhalation, gases) 520,400 - 539,600 ppmV	< 2.5 weight-%

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 4/21

REDOCOL Gray Haze Remover

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 108-88-3 EC No.: 203-625-9 Index No.: 601-021-00-3 REACH No.: 01-2119471310-51	toluene Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), Repr. 2 (H361d***), STOT RE 2 (H373**), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) 5,580 mg/kg ATE (dermal) 5,000 mg/kg ATE (inhalation, vapour) 25.7 – 30 mg/L	< 2.5 weight-%
CAS No.: 107-98-2 EC No.: 203-539-1 Index No.: 603-064-00-3 REACH No.: 01-2119457435-35	1-methoxypropan-2-ol Flam. Liq. 3 (H226), STOT SE 3 (H336) Warning Acute Toxicity Estimate ATE (oral) 3,739 – 4,277 mg/kg ATE (dermal) 2,000 mg/kg	< 2.5 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger Acute Toxicity Estimate ATE (inhalation, gases) > 25,000 mg/kg	< 2.5 weight-%
CAS No.: 106-97-8 EC No.: 203-448-7 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger Acute Toxicity Estimate ATE (inhalation, gases) 658 ppmV	< 2.5 weight-%
CAS No.: 78-83-1 EC No.: 201-148-0 Index No.: 603-108-00-1 REACH No.: 01-2119484609-23	2-methylpropan-1-ol Eye Dam. 1 (H318), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) 2,830 – 3,350 mg/kg ATE (dermal) 2,000 mg/kg ATE (inhalation, vapour) 18.18 mg/L	< 2.5 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

No data available

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

No data available

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 5/21

REDOCOL Gray Haze Remover

6.2. Environmental precautions

No data available

6.3. Methods and material for containment and cleaning up

No data available

6.4. Reference to other sections

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No data available

7.2. Conditions for safe storage, including any incompatibilities

No data available

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³)
WEL (GB)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 400 ppm (766 mg/m ³) ② 500 ppm (958 mg/m ³)
IOELV (EU) from 20 Nov 2019	n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m ³) ② 150 ppm (723 mg/m ³)
WEL (GB) from 21 Aug 2018	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m ³) ② 400 ppm (1,468 mg/m ³)
IOELV (EU) from 21 Feb 2017	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m ³) ② 400 ppm (1,468 mg/m ³)
WEL (GB) from 17 Jan 2020	butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	② 50 ppm (154 mg/m ³) ⑤ (may be absorbed through the skin)
IOELV (EU)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
WEL (GB)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (208 mg/m ³) ② 100 ppm (416 mg/m ³) ⑤ (may be absorbed through the skin)
IOELV (EU)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m ³) ② 100 ppm (441 mg/m ³) ⑤ (may be absorbed through the skin)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 6/21

REDOCOL Gray Haze Remover

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (441 mg/m ³) ② 125 ppm (552 mg/m ³) ⑤ (may be absorbed through the skin)
IOELV (EU)	toluene CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m ³) ② 100 ppm (384 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB) from 1 Oct 2007	toluene CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (191 mg/m ³) ② 100 ppm (384 mg/m ³) ⑤ (may be absorbed through the skin)
IOELV (EU)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (560 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)
WEL (GB)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 600 ppm (1,450 mg/m ³) ② 750 ppm (1,810 mg/m ³)
WEL (GB)	2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	① 50 ppm (154 mg/m ³) ② 75 ppm (231 mg/m ³)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BMGV (GB)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	20 µmol/L	① 4-methylpentan - 2-one ② urine ③ end of exposure or end of shift
BMGV (GB) from 30 Nov 2022	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	650 mmol/mol creatinine	① methyl hippuric acid ② urine ③ end of exposure or end of shift

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 7/21

REDOCOL Gray Haze Remover

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	1,894 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	471 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	48 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	102.34 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	859.7 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	480 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	600 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	7 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	11 mg/kg bw/ day	① DNEL worker ② Acute - dermal, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	367 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	367 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	63 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	73 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 8/21

REDOCOL Gray Haze Remover

Substance name	DNEL value	① DNEL type ② Exposure route
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	4.5 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	55.357 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	310 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	155 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	3.125 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	1.562 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	83 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	14.7 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	208 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	11.8 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	4.2 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	4.2 mg/m ³	① DNEL worker ② Long-term - oral, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	77 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	15 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	293 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	180 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.6 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	192 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	56.5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 9/21

REDOCOL Gray Haze Remover

Substance name	DNEL value	① DNEL type ② Exposure route
toluene CAS No.: 108-88-3 EC No.: 203-625-9	384 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	226 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	192 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	56.5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	384 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	226 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	384 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	226 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
toluene CAS No.: 108-88-3 EC No.: 203-625-9	8.13 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	369 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	43.9 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	553.5 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	553.5 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	183 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	78 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	33 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 10/21

REDOCOL Gray Haze Remover

Substance name	DNEL value	① DNEL type ② Exposure route
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg	① DNEL worker ② Long-term - dermal, local effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	310 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	55 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects

Substance name	PNEC Value	① PNEC type
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	155 µg/L	① PNEC aquatic, freshwater
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	16 µg/L	① PNEC aquatic, marine water
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	160 mg/L	① PNEC sewage treatment plant
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.681 mg/kg	① PNEC sediment, freshwater
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.069 mg/kg	① PNEC sediment, marine water
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.045 mg/kg	① PNEC soil
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	1.549 mg/L	① PNEC aquatic, intermittent release
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.18 mg/L	① PNEC aquatic, freshwater
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.018 mg/L	① PNEC aquatic, marine water
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	35.6 mg/L	① PNEC sewage treatment plant
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.981 mg/L	① PNEC sediment, freshwater
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.0981 mg/L	① PNEC sediment, marine water
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.36 mg/L	① PNEC aquatic, intermittent release
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.0903 mg/L	① PNEC soil, freshwater
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	240 µg/L	① PNEC aquatic, freshwater

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 11/21

REDOCOL Gray Haze Remover

Substance name	PNEC Value	① PNEC type
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	24 µg/L	① PNEC aquatic, marine water
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	6,520 mg/L	① PNEC sewage treatment plant
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1.15 mg/kg	① PNEC sediment, freshwater
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.115 mg/kg	① PNEC sediment, marine water
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.148 mg/kg	① PNEC soil
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	200 mg/kg	① PNEC secondary poisoning
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1.65 mg/L	① PNEC aquatic, intermittent release
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	82 µg/L	① PNEC aquatic, freshwater
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	8.2 µg/L	① PNEC aquatic, marine water
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.0324 mg/kg	① PNEC aquatic, marine water
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	2.476 mg/L	① PNEC sewage treatment plant
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.324 mg/kg	① PNEC sediment, freshwater
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.0166 mg/kg	① PNEC soil
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	2.25 mg/L	① PNEC aquatic, intermittent release
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	600 µg/L	① PNEC aquatic, freshwater
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	60 µg/L	① PNEC aquatic, marine water
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	27.5 mg/L	① PNEC sewage treatment plant
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	8.27 mg/kg	① PNEC sediment, freshwater
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	0.83 mg/kg	① PNEC sediment, marine water
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1.3 mg/kg	① PNEC soil

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 12/21

REDOCOL Gray Haze Remover

Substance name	PNEC Value	① PNEC type
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1.5 mg/L	① PNEC aquatic, intermittent release
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	100 µg/L	① PNEC aquatic, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	100 µg/L	① PNEC aquatic, marine water
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	9.6 mg/L	① PNEC sewage treatment plant
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	13.7 mg/kg	① PNEC sediment, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	13.7 mg/kg	① PNEC sediment, marine water
toluene CAS No.: 108-88-3 EC No.: 203-625-9	74 µg/L	① PNEC aquatic, freshwater
toluene CAS No.: 108-88-3 EC No.: 203-625-9	7.4 µg/L	① PNEC aquatic, marine water
toluene CAS No.: 108-88-3 EC No.: 203-625-9	840 µg/L	① PNEC sewage treatment plant
toluene CAS No.: 108-88-3 EC No.: 203-625-9	1.78 mg/kg	① PNEC sediment, freshwater
toluene CAS No.: 108-88-3 EC No.: 203-625-9	0.178 mg/kg	① PNEC sediment, marine water
toluene CAS No.: 108-88-3 EC No.: 203-625-9	0.313 mg/kg	① PNEC soil
toluene CAS No.: 108-88-3 EC No.: 203-625-9	37.8 µg/L	① PNEC aquatic, intermittent release
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	10 mg/L	① PNEC aquatic, freshwater
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	1 mg/L	① PNEC aquatic, marine water
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	100 mg/L	① PNEC sewage treatment plant
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	52.3 mg/kg	① PNEC sediment, freshwater
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	5.2 mg/kg	① PNEC sediment, marine water
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	4.59 mg/kg	① PNEC soil
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	100 mg/L	① PNEC aquatic, intermittent release

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 13/21

REDOCOL Gray Haze Remover

Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil, freshwater
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	400 µg/L	① PNEC aquatic, freshwater
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	40 µg/L	① PNEC aquatic, marine water
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	10 mg/L	① PNEC sewage treatment plant
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	1.56 mg/kg bw/day	① PNEC sediment, freshwater
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	156 mg/kg bw/ day	① PNEC sediment, marine water
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	11 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: various

Odour: Solvent

flammability: Yes

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	-84 °C		② MSDS Distributor
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	1.2 – 11.5 Vol-%		② The product is not explosive, however, formation of explosive / ignitable vapor / air mixtures is possible.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 14/21

REDOCOL Gray Haze Remover

Parameter	Value	at °C	① Method ② Remark
Vapour pressure	97 hPa	20 °C	② MSDS Distributor
Vapour density	No data available		
Density	No data available		
Bulk density	not applicable		
Water solubility	Immiscible		② MSDS Distributor
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		
Solvent content	41 %		② MSDS Distributor

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

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

xylylene CAS No.: 1330-20-7 EC No.: 215-535-7

LD₅₀ oral: 4,300 mg/kg (Rat) AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956.

LD₅₀ dermal: >1,700 mg/kg (Rabbit) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974.

LC₅₀ Acute inhalation toxicity (dust/mist): 21.7 mg/L 4 h (Rat) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974.

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8

LC₅₀ Acute inhalation toxicity (gas): 164,000 ppmV 4 h (Rat)

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

LD₅₀ oral: 10,760 mg/kg (Ratte) OECD Prüfrichtlinie 423

LD₅₀ dermal: >14,112 mg/kg (Rabbit) OECD Prüfrichtlinie 402

LC₅₀ Acute inhalation toxicity (dust/mist): 23.4 mg/L 4 h (Rat) OECD Prüfrichtlinie 403

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

LD₅₀ oral: 5,620 mg/kg (Rat)

LD₅₀ dermal: >20,000 mg/kg (Rabbit)

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

LD₅₀ oral: 3,500 mg/kg (Rat)

LD₅₀ dermal: 17.8 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (dust/mist): 3,500 mg/L (Rat)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 15/21

REDOCOL Gray Haze Remover

propane CAS No.: 74-98-6 EC No.: 200-827-9

LC₅₀ Acute inhalation toxicity (gas): 520,400 – 539,600 ppmV 2 h (Mouse) ECHA

toluene CAS No.: 108-88-3 EC No.: 203-625-9

LD₅₀ oral: 5,580 mg/kg (Rat)

LD₅₀ dermal: 5,000 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (vapour): 25.7 – 30 mg/L (Rat)

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

LD₅₀ oral: 3,739 – 4,277 mg/kg (Rat)

LD₅₀ dermal: 2,000 mg/kg (Rat)

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

LD₅₀ oral: 790 mg/kg (Rat) South African Medical Journal. Vol. 43, Pg. 795, 1969.

LD₅₀ dermal: 3,400 mg/kg (Rabbit) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 10, 1974.

LC₅₀ Acute inhalation toxicity (vapour): 24.3 mg/L 4 h (Rat) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 10, 1974.

4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1

ATE (inhalation, vapour)¹: 11 mg/L

LD₅₀ oral: >2,000 – ≤5,000 mg/kg (Rat) MSDS Distributor

LD₅₀ dermal: >5,000 mg/kg (Rabbit) MSDS Distributor

LC₅₀ Acute inhalation toxicity (vapour): >10 – ≤20 mg/L 4 h (Rat)

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

LD₅₀ oral: 5,050 mg/kg (Rat)

LD₅₀ dermal: 12,800 mg/m³ (Rabbit)

LC₅₀ Acute inhalation toxicity (gas): >25,000 mg/kg 6 h (Rat)

butane CAS No.: 106-97-8 EC No.: 203-448-7

LC₅₀ Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat) GESTIS

2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0

LD₅₀ oral: 2,830 – 3,350 mg/kg (Ratte) AMA Archives of Industrial Hygiene and Occupational Medicine. Vol. 10, Pg. 61, 1954

LD₅₀ dermal: 2,000 mg/kg (Kaninchen) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 11, 1974

LC₅₀ Acute inhalation toxicity (vapour): 18.18 mg/L (Rat)

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

xylene CAS No.: 1330-20-7 EC No.: 215-535-7

LC₅₀: 3.3 – 780 mg/L 4 d (fish) Bailey, H.C., D.H.W. Liu, and H.A. Javitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C.Bahner and D.J.Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA :193-212

LC₅₀: 8.5 – 8.5 mg/L 2 d (crustaceans)

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8

LC₅₀: 4,100 mg/L 4 d (fish)

EC₅₀: 4,400 mg/L 2 d (crustaceans)

EC₅₀: 154.917 mg/L 4 d (Algae/water plant)

NOEC: 4,100 mg/L 4 d (fish)

NOEC: 4,400 mg/L 2 d (crustaceans)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 16/21

REDOCOL Gray Haze Remover

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

LC₅₀: 18 mg/L 4 d (fish, Pimephales promelas) OECD Test Guideline 203

EC₅₀: 32 - 44 mg/L 2 d (crustaceans, Daphnia magna)

EC₅₀: 246 - 647.7 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Inhibition of growth rate.

NOEC: 105 - 196 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Inhibition of growth rate.

NOEC: 23.2 mg/L 21 d (crustaceans)

IC₅₀: 356 mg/L 2 d (Tetrahymena)

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

LC₅₀: 212 - 484 mg/L 4 d (fish)

LC₅₀: 154 - 1,600 mg/L 2 d (crustaceans)

EC₅₀: 2,500 - 2,500 mg/L 4 d (Algae/water plant)

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

LC₅₀: 4.2 - 5.1 mg/L 4 d (fish)

NOEC: 3.3 mg/L 4 d (fish)

LC₅₀: 2.6 mg/L 4 d (crustaceans)

EC₅₀: 1.8 - 2.4 mg/L 2 d (crustaceans)

NOEC: 0.96 mg/L 4 d (crustaceans)

EC₅₀: 3.6 - 7.7 mg/L 4 d (Algae/water plant)

NOEC: 3.4 - 4.5 mg/L 4 d (Algae/water plant)

propane CAS No.: 74-98-6 EC No.: 200-827-9

LC₅₀: 24.11 - 147.54 mg/L 4 d (fish, other Fish)

LC₅₀: 7.71 mg/L 4 d (Algae/water plant, Green algae)

LC₅₀: 14.22 - 69.43 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

toluene CAS No.: 108-88-3 EC No.: 203-625-9

LC₅₀: 5.5 mg/L 4 d (fish)

LC₅₀: 3.78 mg/L 3 d (crustaceans)

EC₅₀: 134 - 207 mg/L 3 d (Algae/water plant)

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

LC₅₀: 1,000 - 20,800 mg/L 4 d (fish) ECHA

LC₅₀: 21,100 - 25,900 mg/L 2 d (crustaceans) ECHA

EC₅₀: 1,000 mg/L (Algae/water plant) ECHA

NOEC: 1,000 - 4,640 mg/L 4 d (fish) ECHA

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

LC₅₀: 100 - 2,300 mg/L 4 d (fish) Mattson, V.R., J.W. Arthur, and C.T. Walbridge 1976. Acute Toxicity of Selected Organic Compounds to Fathead Minnows. EPA-600/3-76-097, U.S.EPA, Duluth, MN :12 p.

LC₅₀: 1,980 - 1,980 mg/L 2 d (crustaceans) Kuhn, R., M. Pattard, K.D. Pernak, and A. Winter 1989. Results of the Harmful Effects of Selected Water Pollutants (Anilines, Phenols, Aliphatic Compounds) to Daphnia magna. Water Res. 23(4):495-499

4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1

LC₅₀: >100 mg/L (fish) MSDS Distributor

LC₅₀: >100 mg/L (crustaceans) MSDS Distributor

LC₅₀: ≤100 mg/L (Algae/water plant) MSDS Distributor

EC₅₀: >100 mg/L (fish) MSDS Distributor

EC₅₀: >100 mg/L (crustaceans) MSDS Distributor

EC₅₀: ≤100 mg/L (Algae/water plant) MSDS Distributor

IC₅₀: >100 mg/L (fish) MSDS Distributor

IC₅₀: >100 mg/L (crustaceans) MSDS Distributor

IC₅₀: ≤100 mg/L (Algae/water plant) MSDS Distributor

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 17/21

REDOCOL Gray Haze Remover

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

LC₅₀: 9,640 mg/L 4 d (fish, Pimephales promelas (fathead minnow))

LC₅₀: 9,714 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

NOEC: 250 mg/L 4 d (Algae/water plant, Tetrahymena thermophila)

NOEC: 754 mg/L 2 d (Algae/water plant)

butane CAS No.: 106-97-8 EC No.: 203-448-7

LC₅₀: 49.9 mg/L 4 d (fish, fish) ECHA

LC₅₀: 69.43 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) ECHA

EC₅₀: 19.37 mg/L 4 d (Algae/water plant)

2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0

LC₅₀: 1,430 mg/L 4 d (fish) Bottger, A. 1988. Belastung der Anwohner von Chemisch-Reinigungsanlagen durch Tetrachlorethylen. Vortrag :30 (OECDG Data File)

LC₅₀: 1,100 mg/L 2 d (crustaceans) Thurston, R.V., T.A. Gilfoil, E.L. Meyn, R.K. Zajdel, T.L. Aoki, and G.D. Veith 1985. Comparative Toxicity of Ten Organic Chemicals to Ten Common Aquatic Species. Water Res. 19(9):1145-1155

EC₅₀: 593 - 1,799 mg/L 3 d (Algae/water plant)

NOEC: 20 mg/L 21 d (crustaceans)

NOEC: 53 mg/L 3 d (Algae/water plant)

12.2. Persistence and degradability

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8

Biodegradation: Yes, slowly

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

Biodegradation: Yes, rapidly

Remark: 83 % (aerob; Exposure duration: 28 d) (OECD Test Guideline 301D)

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Biodegradation: Yes, rapidly

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

Biodegradation: Yes, slowly

propane CAS No.: 74-98-6 EC No.: 200-827-9

Biodegradation: Yes, rapidly

toluene CAS No.: 108-88-3 EC No.: 203-625-9

Biodegradation: Yes, rapidly

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

Biodegradation: Yes, rapidly

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

Biodegradation: Yes, rapidly

4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1

Biodegradation: Yes, rapidly

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Biodegradation: Yes, rapidly

Remark: Empfohlener Wert der LOG KOW Datenbank

12.3. Bioaccumulative potential

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8

Log K_{OW}: 0.07

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

Log K_{OW}: 2.3

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Log K_{OW}: 0.73

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 18/21

REDOCOL Gray Haze Remover

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

Log K_{OW}: 3.15

propane CAS No.: 74-98-6 EC No.: 200-827-9

Log K_{OW}: 2.36

toluene CAS No.: 108-88-3 EC No.: 203-625-9

Log K_{OW}: 2.73

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

Log K_{OW}: 1

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

Log K_{OW}: 1

4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1

Log K_{OW}: 1.31

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Log K_{OW}: 0.05

butane CAS No.: 106-97-8 EC No.: 203-448-7

Log K_{OW}: 2.89

2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0

Log K_{OW}: 0.76

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

xylene CAS No.: 1330-20-7 EC No.: 215-535-7

Results of PBT and vPvB assessment: —

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8

Results of PBT and vPvB assessment: —

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

Results of PBT and vPvB assessment: —

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

Results of PBT and vPvB assessment: —

propane CAS No.: 74-98-6 EC No.: 200-827-9

Results of PBT and vPvB assessment: —

toluene CAS No.: 108-88-3 EC No.: 203-625-9

Results of PBT and vPvB assessment: —

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

Results of PBT and vPvB assessment: —

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

Results of PBT and vPvB assessment: —

4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1

Results of PBT and vPvB assessment: —

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

butane CAS No.: 106-97-8 EC No.: 203-448-7

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 19/21

REDOCOL Gray Haze Remover

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 190, 3274, 344, 625 Limited quantity (LQ): 1 L Classification code: 5F Tunnel restriction code: (D)	Special Provisions: 190, 3274, 344, 625 Limited quantity (LQ): 1 L Classification code: 5F	Special Provisions: 190, 3274, 344, 625 Limited quantity (LQ): 1 L	Special Provisions: 190, 3274, 344, 625 Limited quantity (LQ): 1 L

14.7. Maritime transport in bulk according to IMO instruments

not determined

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

This product is not assigned to a hazard category.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 92.13 weight-%

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024

Print date: 25 Mar 2025

Version: 0.2



Page 20/21

REDOCOL Gray Haze Remover

16.2. Abbreviations and acronyms

AC	Article Category
ACGIH	American Conference of Governmental Industrial Hygienists
ASTM	American Society for Testing and Materials
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ECHA	European Chemicals Agency
ES	Exposure scenario
IC ₅₀	Inhibition Concentration 50 %
IMO	International Maritime Organization
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
STP	sewage treatment plant
SU	use category
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
aerosol dispensers and lighters (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2024
Print date: 25 Mar 2025
Version: 0.2



Page 21/21

REDOCOL Gray Haze Remover

Hazard statements	
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

16.7. Additional information

No data available