

Printing date 05/10/2021

Reviewed on 03/29/2021

1 Identification

- · Product identifier
- · Trade name: AIR FILTER OIL SPRAY
- · Application of the substance / the mixture

Air filter oil

Only for proper handling.

- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTOREX AG

Bern-Zürich-Strasse 31, Postfach

CH-4901 Langenthal Tel. +41 (0)62 919 75 75

www.motorex.com

- · Information department: msds@motorex.com
- · Emergency telephone number:

USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Distillates (petroleum), hydrotreated light paraffinic

isopentane

ethylbenzene

· Hazard statements

H222 Extremely flammable aerosol.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

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

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray P271 Use only outdoors or in a well-ventilated area.

P301+P310 If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomitina. P331

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

(Contd. on page 2)

(Contd. of page 1)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

Store locked up. P405

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

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 0Fire = 4Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 4

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Press. Gas, H280	25-50%
EC number: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; STOT SE 3, H336	≥20-≤25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Press. Gas, H280	10-25%
CAS: 64742-55-8 EINECS: 265-158-7 Index number: 649-468-00-3	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1, H304	≥1-≤7.5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane Press. Gas, H280	1-2.5%

Additional information:

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346.

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 3)

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

(Contd. of page 2)

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

PAC-1:			
106-97-8	butane, pure	5500* ppr	
74-98-6	propane	5500* ppr	
75-28-5	isobutane	5500* ppr	
78-78-4	isopentane	3000* ppi	
1330-20-7	xylene	130 ppm	
100-41-4	ethylbenzene	33 ppm	
PAC-2:		<u> </u>	
106-97-8	butane, pure	17000** ppm	
74-98-6	propane	17000** ppn	
75-28-5	isobutane	17000** ppn	
78-78-4	isopentane	33000*** ppm	
1330-20-7	xylene	920* ppm	
100-41-4	ethylbenzene	1100* ppm	
PAC-3:		·	
106-97-8	butane, pure	53000*** ppm	
74-98-6	propane	33000*** ppm	
75-28-5	isobutane	53000*** ppm	
78-78-4	isopentane	200000*** ppi	
1330-20-7	xylene	2500* ppm	
100-41-4	ethylbenzene	1800* ppm	

– US

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

(Contd. of page 3)

7 Handling and storage

- Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

The recommended storage temperature is (deg.C): ≤ 50°C

Keep receptacle tightly sealed.

- Storage class: 2 B
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

106-9	97-8 butane, pure
REL	Long-term value: 1900 mg/m³, 800 ppm
TLV	Short-term value: 2370 mg/m³, 1000 ppm (EX)
74-98	B-6 propane
PEL	Long-term value: 1800 mg/m³, 1000 ppm
REL	Long-term value: 1800 mg/m³, 1000 ppm
TLV	refer to Appendix F inTLVs&BEIs book; D, EX
75-28	B-5 isobutane
TLV	Short-term value: 2370 mg/m³, 1000 ppm (EX)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

(Contd. on page 5)

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

· Protection of hands:

(Contd. of page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

· Body protection: Protective work clothing

Information on basic physical and	chemical properties
General Information	
Appearance: Form:	Liquefied gas
Color:	Elqueneu gas Blue
Odor:	Solvent-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
Flash point:	<-50 °C (<-58 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	310 °C (590 °F) (DIN 51794)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explos air/vapor mixtures are possible.
Explosion limits:	
Lower:	0.9 Vol %
Upper:	6.8 Vol %
Vapor pressure at 20 °C (68 °F):	30 hPa (22.5 mm Hg)
Density at 20 °C (68 °F):	0.81 g/cm³ (6.759 lbs/gal) (ASTM D 4052)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.

(Contd. on page 6)

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

	(Contd. of page 5
Kinematic:	15.5 mm²/s @ 40 °C (59.9 mm²/s @ 104 °F)
Solvent separation test VOC content:	79.01-79.02 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11	Toylog	Logica	linfor	matian
	Toxico	11010110471		1161110111

- · Information on toxicological effects
- · Acute toxicity:

106-97-8	butane, pure		
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)	
	LC50 / 15 min	800,000 ppm (rat)	
	LC50 / 2h	1,237 mg/l (mouse)	
	LC50 / 2h	520,400-539,600 ppm (mouse)	
	LC50 / 4h	658 mg/l (rat)	
	NOAEC	4,000-16,000 ppm (rat)	
	NOAEC	7.2-21.4 mg/l (rat)	
	LOAEC	21.6 mg/l (rat)	
	LOAEC	12,000 ppm (rat)	
Hydrocar	bons, C7-C9, n	-alkanes, isoalkanes, cyclics	
Oral	LD50	8 ml/kg (rat)	
Dermal	LD50	4 ml/kg (rat)	
	LD50	2,800-3,100 mg/kg (rat)	
Inhalative	LC50 / 4h	23.3 mg/l (rat)	
	NOAEC	5.8-24.3 mg/l (rat)	
74-98-6 pi	ropane		
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)	
	LC50 / 15 min	800,000 ppm (rat)	
	LC50 / 2h	1,237 mg/l (mouse)	
	LC50 / 2h	520,400-539,600 ppm (mouse)	
	NOAEC	4,000-16,000 ppm (rat)	
	NOAEC	7.214-21.394 mg/l (rat)	
	LOAEC	21.64 mg/l (rat)	
	LOAEC	12,000 ppm (rat)	
64742-55-	8 Distillates (p	etroleum), hydrotreated light paraffinic	
Oral	LD50	5,000 mg/kg (rat)	

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

		(Contd. of page 6
	LOAEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000-5,000 mg/kg (rabbit)
	NOAEL	150 mg/kg/24h (mouse)
		30-2,000 mg/kg/24h (rat)
		1,000 mg/kg/24h (rabbit)
	LOAEL	100 mg/kg/24h (mouse)
Inhalative	LC50 / 4h	2.18-5.53 mg/l (rat)
	NOEL	220 mg/m3 (rat)
	NOAEL	980 mg/m3 (rat)
75-28-5 is	obutane	
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.214-21.394 mg/l (rat)
	LOAEC	21.641 mg/l (rat)
	LOAEC	12,000 ppm (rat)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (Inte	ernational Agency for Research on Cancer)	
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
· NTP (Natio	onal Toxicology Program)	
None of th	e ingredients is listed.	
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of th	e ingredients is listed.	

12 Ecological information

· Toxicity

· Aquati	c toxicity:
106-97	-8 butane, pure
LC50	24.1-147.5 mg/l/96h (fish)
LC50	14.2-69.4 mg/l/48h (aquatic invertebrates)
EC50	7.7-19.4 mg/l/96h (algae / cyanobacteria)
Hydrod	carbons, C7-C9, n-alkanes, isoalkanes, cyclics
EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	3-10 mg/l/96h (fish)
LL50	10-30 mg/l/72h (fish)
LL50	10-30 mg/l/48h (fish)
	(Contd. on page 8)

Reviewed on 03/29/2021 Printing date 05/10/2021

Trade name: AIR FILTER OIL SPRAY

		(Contd. of page
LL50	30-100 mg/l/24h (fish)	
LL0	3 mg/l/96h (fish)	
EL50	13 mg/l/96h (algae / cyanobacteria)	
EL50	4.6-10 mg/l/48h (aquatic invertebrates)	
	10-30 mg/l/48h (algae / cyanobacteria)	
EL50	10-22 mg/l/24h (aquatic invertebrates)	
	10-30 mg/l/24h (algae / cyanobacteria)	
EL50	10-30 mg/l/72h (algae / cyanobacteria)	
EL0	4.6 mg/l/48h (aquatic invertebrates)	
EL0	10 mg/l/24h (aquatic invertebrates)	
NOEC	0.17 mg/l/21d (aquatic invertebrates)	
NOELR	0.574 mg/l/28d (fish)	
NOELR	1 mg/l/21d (aquatic invertebrates)	
NOELR	6.3 mg/l/96h (algae / cyanobacteria)	
74-98-6	propane	
LC50	24.11-147.54 mg/l/96h (fish)	
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)	
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)	
64742-5	5-8 Distillates (petroleum), hydrotreated light paraffinic	
LL50	10,000 mg/l/96h (aquatic invertebrates)	
	100 mg/l/96h (fish)	
	>100 mg/l/96h (Pimephales promelas) (OECD 203)	
LL50	10,000 mg/l/72h (aquatic invertebrates)	
LL50	10,000 mg/l/48h (aquatic invertebrates)	
EL50	10,000 mg/l/48h (aquatic invertebrates)	
NOEL	>100 mg/l/72h (Pseudokirchnerella subcapitata) (OECD 201)	
75-28-5	isobutane	
LC50	24.11-147.54 mg/l/96h (fish)	
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)	
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)	

- · Persistence and degradability No further relevant information available. · Behavior in environmental systems:

Bioaccumulative poter	ntial	
106-97-8 butane, pure		
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)	
Hydrocarbons, C7-C9,	n-alkanes, isoalkanes, cyclics	
Biologische Abbaubarke	it 98 % (28d) (Biodegradability) (OECD 301 F)	
74-98-6 propane		
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)	
64742-55-8 Distillates (petroleum), hydrotreated light paraffinic	
Partition coefficient	>3.5 [] (log Kow) (Bioaccumulation)	
75-28-5 isobutane		
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)	
Biologische Abbaubarke	it 100 % (28d) (Biodegradability)	

· Mobility in soil No further relevant information available.

(Contd. on page 9)

(Contd. of page 8)

Safety Data Sheet acc. to OSHA HCS

Reviewed on 03/29/2021 Printing date 05/10/2021

Trade name: AIR FILTER OIL SPRAY

· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

- · Uncleaned packagings:
- Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

14 Trans	nort info	rmation
14 Halls		mauon

· UN-Number

· DOT, ADR/RID/ADN, IMDG, IATA UN1950

· UN proper shipping name

· DOT Aerosols, flammable · ADR/RID/ADN 1950 AEROSOLS ·IMDG **AEROSOLS**

·IATA AEROSOLS, flammable

· Transport hazard class(es)

· DOT



· Class 2.1 · Label 2.1

ADR/RID/ADN



2 5F Gases · Class 2.1

· Label

· IMDG, IATA



Class 2.1

(Contd. on page 10)

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

	(Contd. of page	
Label	2.1	
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Void	
Environmental hazards:	Not applicable.	
Special precautions for user Hazard identification number (Kemler cod EMS Number: Stowage Code Segregation Code	Warning: Gases	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	· Not applicable.	
Transport/Additional information:		
ADR/RID/ADN Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity	
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

15 Regulatory information

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

No further relevant information available.

Sara		
Section 355	(extremely hazardous substances):	
None of the	ingredients is listed.	
Section 313	(Specific toxic chemical listings):	
1330-20-7	kylene	
100-41-4	ethylbenzene	
TSCA (Toxi	c Substances Control Act):	
106-97-8	butane, pure	ACTIVE
74-98-6	propane	ACTIVE
75-28-5	isobutane	ACTIVE
78-78-4	isopentane	ACTIVE
		(Contd. on page 1

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

4000 00		(Contd. of page
1330-20-7		ACTI
74499-36-8	9,10-Anthracenedione, 1,4-diamino-, N,N'-mixed	ACTIV
100 11	2-ethylhexyl and Me and pentyl derivs.	4.070
	t ethylbenzene	ACTI
· Hazardous	s Air Pollutants	
1330-20-7	xylene	
100-41-4	ethylbenzene	
· Propositio		
· Chemicals	known to cause cancer:	
100-41-4	ethylbenzene	
· Chemicals	known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
None of the	e ingredients is listed.	
- Carcinoge	nic categories	
· EPA (Envi	ronmental Protection Agency)	
1330-20-7	•	
100-41-4	ethylbenzene	
· TLV (Thre	shold Limit Value)	
1330-20-7	xylene	,
100-41-4	ethylbenzene	,
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	e ingredients is listed.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

- · Department issuing SDS: Abteilung Produktsicherheit
- Contact:
- · Date of preparation / last revision 05/10/2021 / -
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

(Contd. on page 12)

Printing date 05/10/2021 Reviewed on 03/29/2021

Trade name: AIR FILTER OIL SPRAY

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit Flam. Aerosol 1: Aerosols – Category 1
Press. Gas: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

(Contd. of page 11)