

1 Identification

- **Product identifier**
- **Trade name:** SPECTRO AIR FILTER OIL
- **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 USA Inc.
993 Federal Road
Brookfield, CT 06804
(203) 775-1291
www.spectro-oils.com
- **Information department:** Info.usa@motorex.com
- **Emergency telephone number:**
USA + Canada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Flammable Liquids 2 H225 Highly flammable liquid and vapor.
Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

Aspiration Hazard 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 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
ethylbenzene
- **Hazard statements**
H225 Highly flammable liquid and vapor.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.

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- P331 Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center/doctor if you feel unwell.
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

· **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:**

EC number: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Specific Target Organ Toxicity - Single Exposure 3, H336	25-50%
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4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Remove contaminated clothing immediately.

Immediately rinse with water.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:**

Consult a physician who will decide on need and method of emptying the stomach.

Do not induce vomiting. Do not take in resorption stimulating agents.

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.

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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· PAC-1:

1330-20-7	xylene	130 ppm
100-41-4	ethylbenzene	33 ppm

· PAC-2:

1330-20-7	xylene	920* ppm
100-41-4	ethylbenzene	1100* ppm

· PAC-3:

1330-20-7	xylene	2500* ppm
100-41-4	ethylbenzene	1800* ppm

· 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.

7 Handling and storage

- **Precautions for safe handling**
Avoid dehydration; when rewetted the resin volume may increase and cause rupture of the packaging as well as of equipment.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**
The recommended storage temperature is (deg.C): $\leq 50^{\circ}\text{C}$
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Additional information about design of technical systems:** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
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.
- **Protection of hands:**
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:**



safety goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Color:** Blue
- **Odor:** Solvent-like
- **Odor threshold:** Not determined.

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· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	82 °C (179.6 °F) (DIN EN ISO 3405)
· Flammability (solid, gaseous):	Highly flammable.
· Explosion limits:	
· Lower:	0.9 Vol %
· Upper:	6.8 Vol %
· Flash point:	12 °C (53.6 °F)
· Auto igniting:	310 °C (590 °F) (DIN 51794)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	15.5 mm ² /s @ 40 °C (DIN 51562-1)
· Consistency	
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	30 hPa (22.5 mm Hg)
· Vapor pressure:	
· Density at 20 °C (68 °F):	0.81 g/cm ³ (6.759 lbs/gal) (ASTM D 4052)
· Relative density	Not determined.
· Vapor density	Not determined.
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent separation test	
· VOC content:	50.04-≤50.05 %
· VOC (EU)	50.04 %
· Change in condition	
· Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Can be distilled without decomposing at normal pressure.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** With strong oxidisers.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
None known. Complete combustion will give carbon dioxide and water.
- **Additional information:** The product is highly flammable.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

Oral	LD50	>2,000 mg/kg (rat)
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Hydrocarbons, 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)

- **Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.

- **Aspiration hazard** May be fatal if swallowed and enters airways.

- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

Hydrocarbons, 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)
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)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

- **Persistence and degradability** No further relevant information available.

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· **Bioaccumulative potential**

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

Biologische Abbaubarkeit 98 % (28d) (Biodegradability) (OECD 301 F)

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects**

· **Additional ecological information:**

· **General notes:**

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

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.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

14 Transport information

· **UN-Number**

· **DOT, ADR/RID/ADN, IMDG, IATA**

UN3295

· **UN proper shipping name**

· **DOT**

· **ADR/RID/ADN**

Hydrocarbons, liquid, n.o.s.

3295 HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS, special provision 640D

· **IMDG**

HYDROCARBONS, LIQUID, N.O.S., MARINE POLLUTANT

· **IATA**

HYDROCARBONS, LIQUID, N.O.S.

· **Transport hazard class(es)**

· **DOT**



· **Class**

3 Flammable liquids

· **Label**

3

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· ADR/RID/ADN



· Class 3 (F1) Flammable liquids
 · Label 3

· IMDG



· Class 3 Flammable liquids
 · Label 3

· IATA



· Class 3 Flammable liquids
 · Label 3

· Packing group

· DOT, ADR/RID/ADN, IMDG, IATA II

· Environmental hazards: Product contains environmentally hazardous substances: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

· Marine pollutant: Yes
 Symbol (fish and tree)

· Special marking (ADR/RID/ADN): Symbol (fish and tree)

· Special precautions for user Warning: Flammable liquids

· Hazard identification number (Kemler code): 33

· EMS Number: F-E,S-D

· Stowage Category B

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT

· Remarks: Special marking with the symbol (fish and tree).

· ADR/RID/ADN

· Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· IMDG

· Limited quantities (LQ) 1L

· Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

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· UN "Model Regulation":

UN 3295 HYDROCARBONS, LIQUID, N.O.S. 3, II,
ENVIRONMENTALLY HAZARDOUS

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 xylene

100-41-4 ethylbenzene

· **TSCA (Toxic Substances Control Act):**

64742-57-0 Residual oils (petroleum), hydrotreated

ACTIVE

1330-20-7 xylene

ACTIVE

74499-36-8 9,10-Anthracenedione, 1,4-diamino-, N,N'-mixed
2-ethylhexyl and Me and pentyl derivs.

ACTIVE

100-41-4 ethylbenzene

ACTIVE

· **Hazardous Air Pollutants**

1330-20-7 xylene

100-41-4 ethylbenzene

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-41-4 ethylbenzene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7 xylene

I

100-41-4 ethylbenzene

D

· **TLV (Threshold Limit Value)**

1330-20-7 xylene

A4

100-41-4 ethylbenzene

A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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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.

· **Date of preparation / last revision** 11/03/2023

· **Abbreviations and acronyms:**

Flammable Liquids 2: Flammable liquids – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Aspiration Hazard 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

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