

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

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

1.1 Product identifier

Trade name: **Exhaust Protection Spray
black**

Article number: 80001

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

No further relevant information available.

Application of the substance / the mixture

Lacquer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS09 environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Storage: Store in a well-ventilated place. Keep cool.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 1)

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

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07 GHS09

· Signal word

Danger

· Hazard-determining components of labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane butanol

· Hazard statements

H222-H229 Extremely flammable aerosol. 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.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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.

P260 Do not breathe spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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 local/regional/national/international regulations.

· Additional information:

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Buildup of explosive mixtures possible without sufficient ventilation.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

- Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 2)

· <u>Dangerous components:</u>		
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane  Flam. Liq. 2, H225  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane  Flam. Gas 1, H220 Press. Gas (Comp.), H280	12.5-25%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure  Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas (Comp.), H280	12.5-25%
EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32; 01-2119486136-34	reaction mass of ethylbenzole and xylene  Flam. Liq. 3, H226  STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane  Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas (Comp.), H280	<10%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butanol  Flam. Liq. 3, H226  Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-5%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-xxxx	titanium dioxide  Carc. 2, H351	1-5%

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water.

· After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

Breathing difficulty

Headache

Dizziness

Cramp

Dizziness

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 3)

· Information for doctor:

Gastric or intestinal disorders

Nausea

Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)
a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.

b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.

Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.

· Hazards

Danger of impaired breathing.

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

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

* **SECTION 5: Firefighting measures**

· **5.1 Extinguishing media**

· Suitable extinguishing agents:

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

· For safety reasons unsuitable extinguishing agents:

Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

· **5.3 Advice for firefighters**

· Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information

Cool endangered receptacles with water spray.

* **SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **6.4 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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 4)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from heat and direct sunlight.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane, pure

WEL Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

71-36-3 butanol

WEL Short-term value: 154 mg/m³, 50 ppm
Sk

DNELs

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane

Oral	DNEL (Langzeit-wiederholt)	699 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	773 mg/kg bw/day (ARB)
		699 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	2,035 mg/m ³ Air (ARB)

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 5)

608 mg/m³ Air (BEV)

reaction mass of ethylbenzole and xylene

Oral

DNEL (Langzeit-wiederholt)

1.6 mg/kg bw/day (BEV)

Dermal

DNEL (Langzeit-wiederholt)

180 mg/kg bw/day (ARB)

Inhalative

DNEL (Kurzzeit-akut)

108 mg/kg bw/day (BEV)

289-442 mg/m³ Air (ARB)

260 mg/m³ Air (BEV)

DNEL (Langzeit-wiederholt)

77 mg/m³ Air (ARB)

14.8-65.3 mg/m³ Air (BEV)

71-36-3 butanol

Oral

DNEL (Langzeit-wiederholt)

3.125 mg/kg bw/day (BEV)

Dermal

DNEL (Langzeit-wiederholt)

3,125 mg/kg bw/day (BEV)

Inhalative

DNEL (Langzeit-wiederholt)

310 mg/m³ Air (ARB)

55 mg/m³ Air (BEV)

13463-67-7 titanium dioxide

Oral

DNEL (Langzeit-wiederholt)

700 mg/kg bw/day (BEV)

Inhalative

DNEL (Langzeit-wiederholt)

10 mg/m³ Air (ARB)

· PNECs

reaction mass of ethylbenzole and xylene

PNEC (wässrig)

6.58 mg/l (KA)

0.327 mg/l (MW)

0.327 mg/l (SW)

PNEC (fest)

2.31 mg/kg Trockengew (BO)

12.46 mg/kg Trockengew (MWS)

12.46 mg/kg Trockengew (SWS)

71-36-3 butanol

PNEC (wässrig)

2,476 mg/l (KA)

0.008 mg/l (MW)

0.082 mg/l (SW)

2.25 mg/l (WAS)

PNEC (fest)

0.015 mg/kg Trockengew (BO)

0.018 mg/kg Trockengew (MWS)

0.178 mg/kg Trockengew (SWS)

13463-67-7 titanium dioxide

PNEC (wässrig)

100 mg/l (KA)

1 mg/l (MW)

0.127 mg/l (SW)

PNEC (fest)

100 mg/kg Trockengew (BO)

100 mg/kg Trockengew (MWS)

1,000 mg/kg Trockengew (SWS)

608 mg/m³ Air (BEV)

reaction mass of ethylbenzole and xylene

Oral

DNEL (Langzeit-wiederholt)

1.6 mg/kg bw/day (BEV)

Dermal

DNEL (Langzeit-wiederholt)

180 mg/kg bw/day (ARB)

Inhalative

DNEL (Kurzzeit-akut)

108 mg/kg bw/day (BEV)

289-442 mg/m³ Air (ARB)

260 mg/m³ Air (BEV)

DNEL (Langzeit-wiederholt)

77 mg/m³ Air (ARB)

14.8-65.3 mg/m³ Air (BEV)

71-36-3 butanol

Oral

DNEL (Langzeit-wiederholt)

3.125 mg/kg bw/day (BEV)

Dermal

DNEL (Langzeit-wiederholt)

3,125 mg/kg bw/day (BEV)

Inhalative

DNEL (Langzeit-wiederholt)

310 mg/m³ Air (ARB)

55 mg/m³ Air (BEV)

13463-67-7 titanium dioxide

Oral

DNEL (Langzeit-wiederholt)

700 mg/kg bw/day (BEV)

Inhalative

DNEL (Langzeit-wiederholt)

10 mg/m³ Air (ARB)

· PNECs

reaction mass of ethylbenzole and xylene

PNEC (wässrig)

6.58 mg/l (KA)

0.327 mg/l (MW)

0.327 mg/l (SW)

PNEC (fest)

2.31 mg/kg Trockengew (BO)

12.46 mg/kg Trockengew (MWS)

12.46 mg/kg Trockengew (SWS)

71-36-3 butanol

PNEC (wässrig)

2,476 mg/l (KA)

0.008 mg/l (MW)

0.082 mg/l (SW)

2.25 mg/l (WAS)

PNEC (fest)

0.015 mg/kg Trockengew (BO)

0.018 mg/kg Trockengew (MWS)

0.178 mg/kg Trockengew (SWS)

13463-67-7 titanium dioxide

PNEC (wässrig)

100 mg/l (KA)

1 mg/l (MW)

0.127 mg/l (SW)

PNEC (fest)

100 mg/kg Trockengew (BO)

100 mg/kg Trockengew (MWS)

1,000 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 6)

· Respiratory protection:

Clean skin thoroughly immediately after handling the product.

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.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· Material of gloves

Butyl rubber, BR

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

Value for the permeation: Level ≤ 1 , 10 min

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

· As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

Natural rubber, NR

Combi-Latex (KCL, Art_No. 395)

· Not suitable are gloves made of the following materials:

Chloroprene rubber, CR

Nitrile rubber, NBR

Neoprene gloves

Strong material gloves

Leather gloves

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 7)

· Eye protection:

Tightly sealed goggles

· Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Aerosol
Colour:	Black
Odour:	Specific type

· pH-value:	Not applicable
-------------	----------------

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Not applicable, as aerosol.

· Flash point:	Not applicable, as aerosol.
----------------	-----------------------------

· Ignition temperature:	365 °C
-------------------------	--------

· Auto-ignition temperature:	Product is not selfigniting.
------------------------------	------------------------------

· Explosive properties:	In use, may form flammable/explosive vapour-air mixture.
-------------------------	--

· Explosion limits:

Lower:	1.5 Vol %
Upper:	10.9 Vol %

· Vapour pressure at 20 °C:	8,300 hPa
-----------------------------	-----------

· Density at 20 °C:	0.68 g/cm ³
---------------------	------------------------

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Viscosity:

Dynamic:	Not determined.
	Not applicable
Kinematic:	Not determined.
	Not applicable

· Solvent content:

Organic solvents:	73.7 %
-------------------	--------

Solids content:	26.4 %
-----------------	--------

· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

No further relevant information available.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air.
Reacts with acids, alkalis and oxidising agents.

· 10.4 Conditions to avoid

No further relevant information available.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 8)

- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Dermal	LD50	26,099 mg/kg
Inhalative	LC50/4 h	82.9-87.4 mg/l (rat)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane

Oral	LD50	>5,840 mg/kg (rat)
Dermal	LD50	>2,920 mg/kg (rabbit)
	LD50	>3,160 mg/kg (rabbit) (IUCLID)
		>2,920 mg/kg (rat)
Inhalative	LC50/4 h	>25.2 mg/l (rat) (IUCLID)

106-97-8 butane, pure

Inhalative	LC50/4 h	658 mg/l (rat)
------------	----------	----------------

reaction mass of ethylbenzole and xylene

Oral	LD50	3,523 mg/kg (rat)
	NOAEL-Werte	250 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4h	29,000 mg/m3 (rat)
	LC50/4 h	6.35-6.7 mg/l (rat)

75-28-5 isobutane

Inhalative	LC50/4 h	>50 mg/l (rat)
------------	----------	----------------

71-36-3 butanol

Oral	LD50	3,430 mg/kg (rabbit) (OECD 402)
		2,292 mg/kg (rat) (OECD 401)
Dermal	LD50	3,400 mg/kg (rbt)
Inhalative	LC50/4h	17.76 mg/m3 (rat)
	LC50/4 h	8,000 mg/l (rat)

13463-67-7 titanium dioxide

Oral	LD50	>5,010 mg/kg (rat)
	NOAEL	24,000 mg/kg (rat)
Dermal	LD50	>10,010 mg/kg (rbt)
Inhalative	NOAEL	10 mg/m ³ (rat)
	LC50/48h	>100 mg/l (daphnia magna)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause drowsiness or dizziness.

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 9)

- STOT-repeated exposure
- Aspiration hazard

Based on available data, the classification criteria are not met.
May be fatal if swallowed and enters airways.

* SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane

EC50/48h	3 mg/l (daphnia magna)
EL50/48h	3 mg/l (daphnia magna)
EL50/72h	30-100 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	11.4 mg/l (Oncorhynchus mykiss)
NOELR/72h	3 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.17 mg/l (daphnia magna)
LC50/96h	2.6 mg/l (piscis) (IUCLID)
LC50/72h	15.8 mg/l (Oncorhynchus mykiss)

reaction mass of ethylbenzole and xylene

LC50/24h	1 mg/l (daphnia magna)
EC50/48h	3.2-9.5 mg/l (daphnia magna)
NOEC	16 mg/l (BES)
	1.3 mg/l (Oncorhynchus mykiss)
NOELR/72h	0.44 mg/l (green alge)
NOELR/28d	16 mg/l (bacteria)
EC50/72h	2.2 mg/l (selenastrum capricornutum)
LC50/96h	2.6 mg/l (Oncorhynchus mykiss)
	8.9-16.4 mg/l (pimephales promelas)

71-36-3 butanol

EC50/96h	225 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50	4,400 mg/l (pseudomonas putida)
IC50/72h	>500 mg/l (Desmodesmus subspicatus)
NOEC/21d	4.1 mg/l (daphnia magna)
EC50/48h	1,328 mg/l (daphnia magna) (OECD 202)
EC50/72h	8,500 mg/l (green alge)
LC50/96h	1,200 mg/l (Leuciscus idus)
	1,376 mg/l (pimephales promelas) (OECD 203)
	>500 mg/l (Scenedesmus subspicatus)

13463-67-7 titanium dioxide

EC50	>1,000 mg/l (bacteria)
EC50/48h	>100 mg/l (daphnia magna)
EC50/72h	16 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>100 mg/l (Oncorhynchus mykiss)
	>1,000 mg/l (pimephales promelas)

- 12.2 Persistence and degradability

No further relevant information available.

- 12.3 Bioaccumulative potential

No further relevant information available.

- 12.4 Mobility in soil

No further relevant information available.

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 10)

- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes: Do not allow product to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

- Uncleaned packaging:
- Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, IMDG, IATA UN1950
- **14.2 UN proper shipping name**
- ADR 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
- IMDG AEROSOLS (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane), MARINE POLLUTANT
- IATA AEROSOLS, flammable

(Contd. on page 12)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 11)

· 14.3 Transport hazard class(es)

· ADR



· Class 2 5F Gases.
· Label 2.1

· IMDG



· Class 2.1
· Label 2.1

· IATA



· Class 2.1
· Label 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: Product contains environmentally hazardous substances:
Yes
Symbol (fish and tree)
· Special marking (ADR): Symbol (fish and tree)

· 14.6 Special precautions for user

· Hazard identification number (Kemler code): -
· EMS Number: F-D,S-U
· Stowage Code SW1 Protected from sources of heat.
SW2 Clear of living quarters.
SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

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

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
· Transport category 2

(Contd. on page 13)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 12)

· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· Directive 2012/18/EU	
· Named dangerous substances - ANNEX I	None of the ingredients is listed.
· Seveso category	P3a FLAMMABLE AEROSOLS E2 Hazardous to the Aquatic Environment
· Qualifying quantity (tonnes) for the application of lower-tier requirements	150 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements	500 t
· REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	
None of the ingredients is listed.	

· National regulations:	
· Waterhazard class:	Water hazard class 2 (Self-assessment): hazardous for water.
· VOC EU	620.9 g/l
· 15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases	H220 Extremely flammable gas. H224 Extremely flammable liquid and vapour. 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. 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. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
--------------------	---

(Contd. on page 14)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2020

Version number 10

Revision: 07.07.2020

Trade name: Exhaust Protection Spray
black

(Contd. of page 13)

- Recommended restriction of use refer to Technical Data Sheet (TDS)
 - Department issuing SDS: Laboratory
 - Contact: Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de
 - Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 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)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Gas 1: Flammable gases – Category 1
 Aerosol 1: Aerosols – Category 1
 Press. Gas (Comp.): Gases under pressure – Compressed gas
 Flam. Liq. 1: Flammable liquids – Category 1
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity - dermal – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Carc. 2: Carcinogenicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 REACH directive 1907/2006/EC
 - Sources
 - * Data compared to the previous version altered.
- Adaptation in accordance with REACH directive 1907/2006/EC