

1 Identification of the substance/mixture and of the company/undertaking
Product identifier

- Trade name: **Spider Black**
- Article number: 10963
- Application of the substance / the preparation: Maintenance product

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
- Information department: Laboratory
- 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.

2 Composition/information on ingredients
Chemical characterization: Mixtures

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

Dangerous components:

CAS: 64742-49-0 EINECS: 265-151-9 Index number: 649-328-00-1	Naphtha (petroleum), hydrotreated light ☒ Xn R65; ☒ Xi R38; ☒ F R11; ☒ N R51/53 R67 Carc. Cat. 2 ⚠ H224; ⚠ H304; ⚠ H411; ⚠ H315; H336; H401	25-50%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol R10-67 ⚠ H226; ⚠ H336	25-50%
CAS: 8002-74-2 EINECS: 232-315-6	Paraffin waxes and Hydrocarbon waxes	<12.5%
CAS: 64742-82-1 EINECS: 265-185-4 Index number: 649-330-00-2	Naphtha (petroleum), hydrodesulfurized heavy ☒ Xn R65 R66 ⚠ H226; ⚠ H304	<12.5%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane ☒ Xn R48/20-62-65; ☒ Xi R38; ☒ F R11; ☒ N R51/53 R67 Repr. Cat. 3 ⚠ H225; ⚠ H361; H373; H304; ⚠ H411; ⚠ H315; H336	1-5%
CAS: 1589-47-5 EINECS: 216-455-5 Index number: 603-106-00-0	2-methoxypropanol ☒ T Repr. Cat. 2 R61; ☒ Xi R37/38-41 R10 ⚠ H226; ⚠ H360; ⚠ H318; ⚠ H315; H335	<1%

- Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification
Classification of the substance or mixture


GHS02 Flame

H225 Highly flammable liquid and vapour.

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GHS08 Health hazard

H304 May be fatal if swallowed and enters airways.



GHS09 Environment

H411 Toxic to aquatic life with long lasting effects.



GHS07

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H303 May be harmful if swallowed.

 • Classification according to Directive 67/548/EEC or Directive 1999/45/EC


Harmful

Harmful: may cause lung damage if swallowed.



Irritant

Irritating to skin.



Highly flammable

Highly flammable.



Dangerous for the environment

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

 • Information concerning particular hazards for human and environment:

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

 • Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

 • Label elements

 • Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

 • Code letter and hazard designation of product:


Xn Harmful

F Highly flammable

N Dangerous for the environment

 • Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light

 • Risk phrases:

Highly flammable.

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Irritating to skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness

· Safety phrases:

Keep out of the reach of children.

Keep in a cool place.

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Do not breathe fumes

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

Take precautionary measures against static discharges.

Wear suitable protective clothing, gloves and eye/face protection.

In case of insufficient ventilation, wear suitable respiratory equipment.

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

· Classification system:· NFPA ratings (scale 0 - 4)

Health = 1

Fire = 3

Reactivity = 0

· HMSI-ratings (scale 0 - 4)

Health = *1

Fire = 3

Reactivity = 0

*** 4 First aid measures**· General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

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

Position and transport stably on side.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· Information for doctor: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, leucosis.

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.

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· Danger Danger of impaired breathing.

5 Firefighting measures

- 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 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)
In certain fire conditions, traces of other toxic gases cannot be excluded.
- Protective equipment: Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
- Additional information Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
- Environmental precautions: Use respiratory protective device against the effects of fumes/dust/aerosol.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow product to reach sewage system or any water course.
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).
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- 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

- Handling:
- Precautions for safe handling Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Use only in well ventilated areas.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Protect from heat.

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- Highly volatile, flammable constituents are released during processing.
- **Storage:**
- Requirements to be met by storerooms and receptacles:
 - Store in a cool location.
 - Store only in the original receptacle.
 - Prevent any seepage into the ground.
- Information about storage in one common storage facility:
 - Store away from oxidizing agents.
 - Store away from foodstuffs.
- Further information about storage conditions:
 - Store in cool, dry conditions in well sealed receptacles.
 - Keep receptacle tightly sealed.
 - Protect from heat and direct sunlight.
 - Store receptacle in a well ventilated area.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

Components with limit values that require monitoring at the workplace:

107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 553 mg/m ³ , 150 ppm Long-term value: 369 mg/m ³ , 100 ppm

8002-74-2 Paraffin waxes and Hydrocarbon waxes

REL	2 mg/m ³
TLV	2 mg/m ³

110-54-3 n-hexane

REL	1800 mg/m ³ , 500 ppm
REL	180 mg/m ³ , 50 ppm
TLV	176 mg/m ³ , 50 ppm
	Skin; BEI

- Additional information: The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- General protective and hygienic measures:
 - The usual precautionary measures for handling chemicals should be followed.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - Do not inhale gases / fumes / aerosols.
 - Do not eat, drink, smoke or sniff while working.
 - Use skin protection cream for skin protection.
 - Clean skin thoroughly immediately after handling the product.
- 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.
 - Short term filter device:
 - Filter AX
- 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.
 - Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:
 - STOKODERM (<http://www.stoko.com>)

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Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Akemi skin protection recommendation for skin cleaning after product handling: FRAPANTOL (<http://www.stoko.com>)

Akemi skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)



Protective gloves

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

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>).

· Material of gloves

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

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.

· Penetration time of glove material

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

Value for the permeation: Level \geq 6, 480 min

· For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art No. 890)

Nitrile rubber, NBR

Camatril (KCL, Art No. 730, 731, 732, 733)

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

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art No. 890)

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Leather gloves

Strong gloves

· Eye protection:



Tightly sealed goggles

· Body protection:

Protective work clothing

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9 Physical and chemical properties

· **General Information**

· **Appearance:**

Form:	Fluid
Color:	Yellowish
Odor:	Petrol-like

· **pH-value:** Not applicable

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	316°C (601 °F)

· **Flash point:** -18°C (-0 °F)

· **Ignition temperature:** 270°C (518 °F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:	2.3 Vol %
Upper:	6.5 Vol %

· **Vapor pressure at 20°C (68 °F):** 12 hPa (9 mm Hg)

· **Density at 20°C (68 °F):** 0.78 g/cm³ (6.509 lbs/gal)

· **Specific gravity at 20°C (68 °F):** 0.78 g/cm³ (6.509 lbs/gal)

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Viscosity:**

Dynamic:	Not determined.
Kinematic at 20°C (68 °F):	11 s (DIN 53211/4)

· **Solvent content:**

Organic solvents: 87.1 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.

· **Hazardous decomposition products:**

Carbon monoxide and carbon dioxide
Flammable gases/vapors

11 Toxicological information

· **Acute toxicity:**

· LD/LC50 values that are relevant for classification:

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4 h	> 2.0 mg/l (rat)

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64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5 mg/l mg/l (rat)

110-54-3 n-hexane

Oral	LD50	28700 mg/kg (rat)
Dermal	LD50	3295 mg/kg (rabbit)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- 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:
Harmful
Irritant

12 Ecological information· Acquatic toxicity:**64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy**

EC50	>10-<100 mg/l (green alge)
	>10-<100 mg/l (bacteria)
	>100-<1000 mg/l (daphnia magna)
LC50	>10-<100 mg/l (piscis)

· Ecotoxic effects:

- Remark: Toxic for fish

· Additional ecological information:

- General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Water hazard class 1 (Self-assessment): slightly hazardous for water
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations· Waste treatment methods

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

· Uncleaned packagings:

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

- Recommended cleansing agent: Alcohol

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14 Transport information

· DOT regulations:



- Hazard class: 3
- Identification number: UN3295
- Packing group: II
- Proper shipping name (technical name): HYDROCARBONS, LIQUID, N.O.S.
- Label: 3

· Land transport ADR/RID (cross-border):



- ADR/RID class: 3 (F1) Flammable liquids
- Danger code (Kemler): 33
- UN-Number: 3295
- Packaging group: II
- Special marking: Symbol (fish and tree)
- UN proper shipping name: 3295 HYDROCARBONS, LIQUID, N.O.S., special provision 640D, ENVIRONMENTALLY HAZARDOUS

· Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 3295
- Label: 3
- Packaging group: II
- EMS Number: F-E,S-D
- Marine pollutant: Symbol (fish and tree)
- Propper shipping name: HYDROCARBONS, LIQUID, N.O.S.

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 3295
- Label: 3
- Packaging group: II
- Propper shipping name: HYDROCARBONS, LIQUID, N.O.S.

· UN "Model Regulation":

UN3295, HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS, 3, II

· Environmental hazards:

Product contains environmentally hazardous substances:

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15 Regulatory information· Sara· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

110-54-3 n-hexane

· TSCA (Toxic Substances Control Act):

64742-49-0 Naphtha (petroleum), hydrotreated light

107-98-2 1-methoxy-2-propanol

8002-74-2 Paraffin waxes and Hydrocarbon waxes

68132-00-3 Kohlenwasserstoff-Harz

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

110-54-3 n-hexane

1589-47-5 2-methoxypropanol

· Proposition 65· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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.

· Carcinogenity categories· EPA (Environmental Protection Agency)

110-54-3 n-hexane

II

91-20-3 naphthalene

CBD

· IARC (International Agency for Research on Cancer)

91-20-3 naphthalene

2B

· NTP (National Toxicology Program)

91-20-3 naphthalene

R

· TLV (Threshold Limit Value established by ACGIH)

91-20-3 naphthalene

A4

· MAK (German Maximum Workplace Concentration)

91-20-3 naphthalene

2

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

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

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· Hazard symbols:

Xn Harmful
F Highly flammable
N Dangerous for the environment

· Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light

· Risk phrases:

Highly flammable.
Irritating to skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness

· Safety phrases:

Keep out of the reach of children.
Keep in a cool place.
Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not breathe fumes
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
Take precautionary measures against static discharges.
Wear suitable protective clothing, gloves and eye/face protection.
In case of insufficient ventilation, wear suitable respiratory equipment.
If swallowed, seek medical advice immediately and show this container or label.
Use only in well-ventilated areas.

· **National regulations:**

· Information about limitation of use: Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC USA 671.2 g/l / 5.60 lb/gl

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.

· **Department issuing MSDS:**

Laboratory

· **Contact:**

Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

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Material Safety Data Sheet
acc. to ISO/DIS 11014

AKEMI®

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Reviewed on 07/08/2011

Trade name: Spider Black

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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USA