

# **MOLYKOTE(R) METAL CLEANER SPRAY**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.10.2015

 1.5
 19.10.2015
 1101861-00006
 Date of first issue: 09.01.2015

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

1.1 Product identifier

Trade name : MOLYKOTE(R) METAL CLEANER SPRAY

Product code : 00000000001946692, 00000000001946692

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

Use of the Sub- : Solvent

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Dow Corning Europe S.A.

rue Jules Bordet - Parc Industriel - Zone C

B-7180 Seneffe

Telephone : English Tel: +49 611237507

Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163

E-mail address of person responsible for the SDS

: sdseu@dowcorning.com

1.4 Emergency telephone number

Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single ex-

posure, Category 3

H336: May cause drowsiness or dizziness.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 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 : **Prevention:** 

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P211 Do not spray on an open flame or other

ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated

area.

Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Naphtha (petroleum), hydrotreated light

## 2.3 Other hazards

None known.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : aromatic Solvent

### **Hazardous components**

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Registration number		
Naphtha (petroleum), hydrotreated light	64742-49-0 265-151-9	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 25 - < 30



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Propan-2-ol	67-63-0 200-661-7 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 20 - < 30
Acetone	67-64-1 200-662-2 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 20 - < 30
Ethyl acetate	141-78-6 205-500-4 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 3 - < 10

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Get medical attention.
Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

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

Risks : Causes skin irritation.

Causes serious eye irritation. May cause drowsiness or dizziness.

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

Treatment : Treat symptomatically and supportively.



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## **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Flash back possible over considerable distance. Vapours may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Hazardous combustion prod-

ucts

: Carbon oxides

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Specific extinguishing meth-

ods

: Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

Use personal protective equipment.

Follow safe handling advice and personal protective equip-

ment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.



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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Do not get on skin or clothing.

Do not breathe vapours or spray mist.

Do not swallow.

Do not get in eyes.

Handle in accordance with good industrial hygiene and safety

practice.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the

environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep in properly labelled containers. Store locked up. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even

after use. Keep cool. Protect from sunlight.

Advice on common storage : Do not store with the following product types:

Self-reactive substances and mixtures



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Organic peroxides Oxidizing agents Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

flammable gases Explosives

7.3 Specific end use(s)

 $Specific \ use(s) \\ \hspace{2.5cm} : \ For \ further \ information \ regarding \ the \ use \ of \ silicones \ / \ organic$ 

oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the

Dow Corning customer service group.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
		STEL	500 ppm 1,250 mg/m3	GB EH40
Acetone	67-64-1	TWA	500 ppm 1,210 mg/m3	2000/39/EC
Further information	Indicative			
		TWA	500 ppm 1,210 mg/m3	GB EH40
		STEL	1,500 ppm 3,620 mg/m3	GB EH40
Ethyl acetate	141-78-6	TWA	200 ppm	GB EH40
		STEL	400 ppm	GB EH40

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m3
	Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day



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	Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day
Acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m3
	Workers	Inhalation	Acute local effects	2420 mg/m3
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	200 mg/m3
	Consumers	Skin contact	Long-term systemic effects	62 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	62 mg/kg bw/day
Ethyl acetate	Workers	Inhalation	Long-term systemic effects	734 mg/m3
	Workers	Inhalation	Acute systemic effects	1468 mg/m3
	Workers	Inhalation	Long-term local effects	734 mg/m3
	Workers	Inhalation	Acute local effects	1468 mg/m3
	Workers	Skin contact	Long-term systemic effects	
	Consumers	Inhalation	Long-term systemic effects	367 mg/m3
	Consumers	Inhalation	Acute systemic effects	734 mg/m3
	Consumers	Inhalation	Long-term local effects	367 mg/m3
	Consumers	Inhalation	Acute local effects	734 mg/m3
	Consumers	Skin contact	Long-term systemic effects	37 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4.5 mg/kg bw/day

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propan-2-ol	Fresh water	140.9 mg/l
	Marine water	140.9 mg/l
	Intermittent use/release	140.9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg



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	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Oral	160 mg/kg
Acetone	Fresh water	10.6 mg/l
	Marine water	1.06 mg/l
	Intermittent use/release	21 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	30.4 mg/kg
	Marine sediment	3.04 mg/kg
	Soil	29.5 mg/kg
Ethyl acetate	Fresh water	0.26 mg/l
	Marine water	0.026 mg/l
	Intermittent use/release	1.65 mg/l
	Sewage treatment plant	650 mg/l
	Fresh water sediment	1.25 mg/kg
	Marine sediment	0.125 mg/kg
	Soil	0.24 mg/kg
	Oral	200 mg/kg

## 8.2 Exposure controls

### **Engineering measures**

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust ventilation.

Use with local exhaust ventilation.

## Personal protective equipment

Eye protection : Wear the following personal protective equipment:

Safety goggles

Hand protection

Material : Impervious gloves

Flame retardant gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the

end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical re-

sistance data and an assessment of the local exposure poten-

Filter type



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tial.

Wear the following personal protective equipment:

Flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

: Self-contained breathing apparatus

9.1 Information on basic physical and chemical properties

Appearance : Aerosol containing a dissolved gas

Colour : colourless

**SECTION 9: Physical and chemical properties** 

Odour : aromatic

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 0.78

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

according to Regulation (EC) No. 1907/2006



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Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Molecular weight : No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.

Vapours may form explosive mixture with air.

If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure Skin contact

Ingestion Eye contact

#### **Acute toxicity**

Not classified based on available information.

### **Components:**

Naphtha (petroleum), hydrotreated light:

Acute oral toxicity : LD50 (Rat): > 5,840 mg/kg



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Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 25.2 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,800 - 3,100 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Acetone:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Ethyl acetate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 29.3 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

## Skin corrosion/irritation

Causes skin irritation.

## **Components:**

Naphtha (petroleum), hydrotreated light:

Species: Rabbit Result: Skin irritation

Remarks: Based on data from similar materials

Propan-2-ol:

Species: Rabbit

Result: No skin irritation

according to Regulation (EC) No. 1907/2006



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#### Acetone:

Assessment: Repeated exposure may cause skin dryness or cracking.

### Ethyl acetate: Species: Rabbit

Result: No skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### **Components:**

### Naphtha (petroleum), hydrotreated light:

Species: Rabbit Result: No eye irritation

### Propan-2-ol: Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

### Acetone:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritation to eyes, reversing within 21 days

### Ethyl acetate:

Result: Irritation to eyes, reversing within 21 days

Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

#### Components:

### Naphtha (petroleum), hydrotreated light:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

#### Propan-2-ol:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

### Acetone:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig

according to Regulation (EC) No. 1907/2006



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Result: negative

Ethyl acetate:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

Naphtha (petroleum), hydrotreated light:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity- As-

sessment

: Classified based on benzene content < 0.1% (Regulation (EC)

1272/2008, Annex VI, Part 3, Note P)

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Acetone:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Hamster

Application Route: Intraperitoneal injection

Result: negative

Ethyl acetate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Hamster

Application Route: Ingestion

Result: negative

Carcinogenicity

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



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### Components:

Naphtha (petroleum), hydrotreated light:

Carcinogenicity - Assess- : Classified based on benzene content < 0.1% (Regulation (EC)

ment 1272/2008, Annex VI, Part 3, Note P)

Propan-2-ol: Species: Rat

Application Route: inhalation (vapour)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

Acetone:

Species: Mouse

Application Route: Skin contact

Exposure time: 1 Years

Result: negative

Reproductive toxicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated light:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Mouse

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

Acetone:

Effects on fertility : Test Type: One-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal develop- : Test Type: Embryo-foetal development

according to Regulation (EC) No. 1907/2006



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ment Species: Mouse

Result: negative

Ethyl acetate:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Rat

Application Route: Inhalation

Result: negative

### STOT - single exposure

May cause drowsiness or dizziness.

#### **Components:**

### Naphtha (petroleum), hydrotreated light:

Assessment: May cause drowsiness or dizziness. Remarks: Based on data from similar materials

## Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

#### Acetone:

Assessment: May cause drowsiness or dizziness.

## Ethyl acetate:

Assessment: May cause drowsiness or dizziness.

## STOT - repeated exposure

Not classified based on available information.

#### Repeated dose toxicity

### **Components:**

### Naphtha (petroleum), hydrotreated light:

Species: Rat

NOAEL: 24,300 mg/m3

Application Route: inhalation (vapour)

Exposure time: 13 Weeks

Remarks: Based on data from similar materials

# Propan-2-ol:

Species: Rat NOAEL: 5000 ppm

Application Route: inhalation (vapour)

Exposure time: 104 Weeks

Method: OECD Test Guideline 413

#### Acetone:

Species: Rat

according to Regulation (EC) No. 1907/2006



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LOAEL: 1,700 mg/kg Application Route: Ingestion Exposure time: 90 Days

Ethyl acetate: Species: Rat

NOAEL: 900 mg/kg

Application Route: Ingestion Exposure time: 90 Days

### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

### Naphtha (petroleum), hydrotreated light:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

#### Components:

# Naphtha (petroleum), hydrotreated light:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 12 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): 3 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 30 -

100 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOEC: 0.17 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.



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Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

: EC50 (Pseudomonas putida): > 1,050 mg/l Toxicity to bacteria

Exposure time: 16 h

Acetone:

: LC50 (Pimephales promelas (fathead minnow)): 6,210 - 8,120 Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia pulex (Water flea)): 8,800 mg/l

Exposure time: 48 h

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOEC: 1,106 - 2,212 mg/l Exposure time: 28 d

Species: Daphnia magna (Water flea)

Ethyl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 : > 100 mg/l Exposure time: 48 h

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

: EC50 (Photobacterium phosphoreum): 5,870 mg/l Toxicity to bacteria

Exposure time: 0.25 h

Toxicity to daphnia and other

aquatic invertebrates (Chron-

: NOEC: 2.4 mg/l

Exposure time: 24 d

ic toxicity) Species: Daphnia magna (Water flea)

### 12.2 Persistence and degradability

### Components:

### Naphtha (petroleum), hydrotreated light:

: Result: Readily biodegradable Biodegradability

Biodegradation: 77 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Propan-2-ol:

Biodegradability : Result: rapidly degradable

according to Regulation (EC) No. 1907/2006



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Acetone:

Biodegradability : Result: Readily biodegradable

Biodegradation: 91 % Exposure time: 28 d

Ethyl acetate:

Biodegradability : Result: Readily biodegradable

Biodegradation: 69 % Exposure time: 20 d

### 12.3 Bioaccumulative potential

### **Components:**

Naphtha (petroleum), hydrotreated light:

Partition coefficient: n- : log Pow: > 4

octanol/water Remarks: Expert judgement

Propan-2-ol:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

Acetone:

Partition coefficient: n- :

octanol/water

: log Pow: -0.24

Ethyl acetate:

Bioaccumulation : Species: Leuciscus idus (Golden orfe)

Exposure time: 3 d

Bioconcentration factor (BCF): 30

Partition coefficient: n-

octanol/water

: log Pow: 0.68

### 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste han-

according to Regulation (EC) No. 1907/2006



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dling site for recycling or disposal.

Do not burn.

If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty

(including propellant)

## **SECTION 14: Transport information**

### 14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

### 14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS

(Naphtha (petroleum), hydrotreated light)

IATA : Aerosols, flammable

### 14.3 Transport hazard class(es)

ADN : 2.1
ADR : 2.1
RID : 2.1
IMDG : 2.1
IATA : 2.1

### 14.4 Packing group

## **ADN**

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

#### **ADR**

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

### **RID**

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23

according to Regulation (EC) No. 1907/2006



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Labels : 2.1

**IMDG** 

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

: 203

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen: 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

**ADR** 

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable for product as supplied.

**SECTION 15: Regulatory information** 

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

: Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

20 / 23



25.000 t

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lutants

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

major-accident hazards involving dangerous substances.

P3a FLAMMABLE AEROSOLS 150 t 500 t

E2 ENVIRONMENTAL 200 t 500 t
HAZARDS

Petroleum products: (a)

gasolines and naphthas,
(b) kerosenes (including jet
fuels), (c) gas oils (including diesel fuels, home
heating oils and gas oil
blending streams),(d)
heavy fuel oils (e) alternative fuels serving the same
purposes and with similar
properties as regards
flammability and environ-

products referred to in points (a) to (d)

18 Liquefied extremely flam- 50 t 200 t

mental hazards as the

mable gases (including LPG) and natural gas

Other regulations : Take note of Dir 94/33/EC on the protection of young people

at work.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applica-

2.500 t

ble.

The components of this product are reported in the following inventories:

REACH : All ingredients (pre-)registered or exempt.

IECSC : All ingredients listed or exempt.

KECI : All ingredients listed, exempt or notified.

TCSI : All ingredients listed or exempt.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information** 

**Full text of H-Statements** 

H225 : Highly flammable liquid and vapour.



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H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H319 : Causes serious eye irritation. H336 : May cause drowsiness or dizziness.

H411 : Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Aquatic Chronic

Asp. Tox.

Eye Irrit.

Flam. Liq.

Skin Irrit.

: Chronic aquatic toxicity

: Aspiration hazard

: Eye irritation

: Flammable liquids

: Skin irritation

STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2000/39/EC / TWA : Limit Value - eight hours

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response: GHS - Globally Harmonized System: GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations: vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**



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Sources of key data used to compile the Safety Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN