according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

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

1.1 Product identifier

Trade name : MOLYKOTE(R) MKL-N SPRAY

Product code : 00000000001684108, 00000000001684108

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

Use of the Sub- : Lubricants and lubricant additives

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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

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.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Hydrocarbon aerosol propellant

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Naphtha (petroleum), hydrotreated heavy	64742-48-9 265-150-3	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 2.5 - < 10
Diphenyl- (2-ethylhexyl) - phosphate	1241-94-7 214-987-2	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.25 - < 1
Substances with a workplace exposure limit :			
2-Methoxy-1-methylethyl acetate	108-65-6 203-603-9	Flam. Liq. 3; H226	>= 1 - < 10

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders : No special precautions are necessary for first aid responders.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

Get medical attention if irritation develops and persists.

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

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

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

: Wear self-contained breathing apparatus for firefighting if nec-

essary. 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.

Description of the section of the se

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.

Follow safe handling advice and personal protective equip-

ment recommendations.

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

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.

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 only with adequate ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Avoid inhalation of vapour or mist.

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.

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep in properly labelled containers. 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

: Do not store with the following product types: Self-reactive substances and mixtures

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) : 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
n-Butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
		STEL	200 ppm 966 mg/m3	GB EH40
2-Methoxy-1- methylethyl ace- tate	108-65-6	TWA	50 ppm 275 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 550 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 274 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 548 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

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

Substance name	End Use	Exposure routes	Potential health effects	Value
n-Butyl acetate	Workers	Inhalation	Acute systemic effects	960 mg/m3
	Workers	Inhalation	Acute local effects	960 mg/m3
	Workers	Inhalation	Long-term systemic effects	480 mg/m3
	Workers	Inhalation	Long-term local effects	480 mg/m3
	Consumers	Inhalation	Acute systemic effects	859.7 mg/m3
	Consumers	Inhalation	Acute local effects	859.7 mg/m3
	Consumers	Inhalation	Long-term systemic effects	102.34 mg/m3
	Consumers	Inhalation	Long-term local effects	102.34 mg/m3
2-Methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Skin contact	Long-term systemic effects	153.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Skin contact	Long-term systemic effects	54.8 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1.67 mg/kg bw/day
Diphenyl- (2- ethylhexyl) -phosphate	Workers	Inhalation	Long-term systemic effects	5.11 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.73 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1.54 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.44 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.44 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	40.88 mg/m3
	Workers	Skin contact	Acute systemic effects	5.84 mg/kg bw/day



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

Consu	Inhalation	Acute systemic e fects	ef- 58.45 mg/m3
Consu	ımers Skin conta	ct Acute systemic e fects	ef- 52.67 mg/kg bw/day
Consu	imers Ingestion	Acute systemic e fects	ef- 16.7 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
n-Butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.018 mg/l
	Intermittent use/release	0.36 mg/l
	Sewage treatment plant	35.6 mg/l
	Fresh water sediment	0.981 mg/kg
	Marine sediment	0.0981 mg/kg
	Soil	0.0903 mg/kg
2-Methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
	Marine water	0.0635 mg/l
	Intermittent use/release	6.35 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	3.29 mg/kg
	Marine sediment	0.329 mg/kg
	Soil	0.29 mg/kg
Distillates (petroleum), hydrotreated light paraffinic	Oral	9.33 mg/kg
Diphenyl- (2-ethylhexyl) - phosphate	Fresh water	1.8 μg/l
	Marine water	0.18 μg/l
	Intermittent use/release	1.5 μg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	5.8 mg/kg
	Marine sediment	0.58 mg/kg
	Soil	1.16 mg/kg
	Oral	3.86 mg/kg

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

according to Regulation (EC) No. 1907/2006

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

Version Revision Date: SDS Number: Date of last issue: 22.04.2015 01.10.2015 818959-00003 Date of first issue: 24.11.2014 1.2

Minimize workplace exposure concentrations.

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

Personal protective equipment

Eye protection : Wear the following personal protective equipment:

Safety glasses

Hand protection

Material : 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. Wash hands before

breaks and at the end of workday.

: Wear the following personal protective equipment: Skin and body protection

Flame retardant antistatic protective clothing.

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

tilation is provided or exposure assessment demonstrates that

exposures are within recommended exposure guidelines.

Filter type : Self-contained breathing apparatus

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Aerosol containing a dissolved gas

Colour : black

Odour : solvent-like

Odour Threshold : No data available

Hq : 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

: No data available Lower explosion limit

Vapour pressure : No data available

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

Relative vapour density : No data available

Relative density : 0.72

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

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

according to Regulation (EC) No. 1907/2006

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

exposure Skin contact

Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

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

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,951 mg/m3

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Diphenyl- (2-ethylhexyl) -phosphate:

Acute oral toxicity : LD50 (Rat): > 15,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

2-Methoxy-1-methylethyl acetate:

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

Acute inhalation toxicity : LC0 (Rat): 9.48 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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

Skin corrosion/irritation

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

Species: Rabbit

Result: Mild skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

Diphenyl- (2-ethylhexyl) -phosphate:

Species: Rabbit

Result: No skin irritation

according to Regulation (EC) No. 1907/2006

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

2-Methoxy-1-methylethyl acetate:

Species: Rabbit Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Remarks: Based on data from similar materials

Diphenyl- (2-ethylhexyl) -phosphate:

Species: Rabbit

Result: No eye irritation

2-Methoxy-1-methylethyl acetate:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

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

Components:

Naphtha (petroleum), hydrotreated heavy:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

2-Methoxy-1-methylethyl 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 heavy:

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

Result: negative

Remarks: Based on data from similar materials

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

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Germ cell mutagenicity- As-

sessment

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

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

Diphenyl- (2-ethylhexyl) -phosphate:

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

Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Rat

Application Route: Ingestion

Result: negative

2-Methoxy-1-methylethyl acetate:

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

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 105 weeks

Result: negative

Remarks: Based on data from similar materials

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

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

2-Methoxy-1-methylethyl acetate:

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 2 Years Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: inhalation (vapour)

Result: negative

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

Diphenyl- (2-ethylhexyl) -phosphate:

Effects on fertility : Test Type: One-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

2-Methoxy-1-methylethyl acetate:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Naphtha (petroleum), hydrotreated heavy:

Species: Rat

NOAEL: 10,186 mg/m3

Application Route: inhalation (vapour)

Exposure time: 13 Weeks

Diphenyl- (2-ethylhexyl) -phosphate:

Species: Rat LOAEL: 174 mg/kg

according to Regulation (EC) No. 1907/2006

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

Version Revision Date: SDS Number: Date of last issue: 22.04.2015 01.10.2015 818959-00003 Date of first issue: 24.11.2014 1.2

Application Route: Ingestion Exposure time: 90 Days

2-Methoxy-1-methylethyl acetate:

Species: Rat

NOAEL: > 1,000 mg/kg Application Route: Ingestion Exposure time: 41 - 45 Days Method: OECD Test Guideline 422

Species: Mouse NOAEL: 1.62 mg/l

Application Route: inhalation (vapour)

Exposure time: 2 yr

Remarks: Based on data from similar materials

Species: Rabbit NOAEL: > 1,000 mg/kg Application Route: Skin contact

Exposure time: 21 Days

Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

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 heavy:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 30 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 22 - 46 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)): > 1,000

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

Version Revision Date: SDS Number: Date of last issue: 22.04.2015 01.10.2015 818959-00003 Date of first issue: 24.11.2014 1.2

Remarks: Based on data from similar materials

NOELR (Pseudokirchneriella subcapitata (green algae)): 1

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Diphenyl- (2-ethylhexyl) -phosphate:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Chironomus sp. (midge)): 0.67 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.12 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0.072 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

Toxicity to fish (Chronic tox-

icity)

: NOEC: 0.021 mg/l Exposure time: 71 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.018 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

2-Methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 - 180

mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >

1,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to bacteria : EC10 : > 1,000 mg/l

Exposure time: 0.5 h

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOEC: > 100 mg/l Exposure time: 21 d

> Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

12.2 Persistence and degradability

Components:

Naphtha (petroleum), hydrotreated heavy:

Biodegradability : Result: Readily biodegradable

Biodegradation: 89 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

Diphenyl- (2-ethylhexyl) -phosphate:

Biodegradability : Result: Readily biodegradable

Biodegradation: 70.8 % Exposure time: 15 d

Method: OECD Test Guideline 301B

2-Methoxy-1-methylethyl acetate:

Biodegradability : Result: Readily biodegradable

Biodegradation: 90 % Exposure time: 28 d

Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

Diphenyl- (2-ethylhexyl) -phosphate:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 934

Partition coefficient: n-

octanol/water

: log Pow: 5.87

2-Methoxy-1-methylethyl acetate:

Partition coefficient: n-

octanol/water

: log Pow: 1.2

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.

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

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

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

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

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

Date of last issue: 22.04.2015 Version Revision Date: SDS Number: 01.10.2015 818959-00003 Date of first issue: 24.11.2014 1.2

Hazard Identification Number Labels : 2.1

IMDG

Packing group : Not assigned by regulation

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

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen-

ger aircraft)

: Y203

: 203

Packing instruction (LQ) Packing group : Not assigned by regulation

: Flammable Gas Labels

14.5 Environmental hazards

Environmentally hazardous : no

ADR

Environmentally hazardous : no

Environmentally hazardous : no

IMDG

Marine pollutant : no

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

: Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

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

plete the ozone layer

: Not applicable

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable

lutants

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	Quantity 1 150 t	Quantity 2 500 t
18	Liquefied extremely flam- mable gases (including LPG) and natural gas	50 t	200 t
34	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 environmental hazards as the products referred to in points (a) to (d)	2,500 t	25,000 t

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

at work.

Take note of Directive 92/85/EEC regarding maternity protection or strictor national regulations, where applicable

tion or stricter national regulations, where applicable.

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

ble.

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

NZIoC : All ingredients listed or exempt.

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

AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

DSL : All chemical substances in this product comply with the CEPA

1999 and NSNR and are on or exempt from listing on the Ca-

nadian Domestic Substances List (DSL).

KECI : One or more ingredients are not listed or exempt.

DOW CORNING

MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

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

H226 : Flammable liquid and vapour.

H304 : May be fatal if swallowed and enters airways.

H336 : May cause drowsiness or dizziness.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Asp. Tox. : Aspiration hazard
Flam. Lig. : Flammable liquids

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 2000/39/EC / STEL : Short term exposure limit

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 Substanc-

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) MKL-N SPRAY

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 22.04.2015

 1.2
 01.10.2015
 818959-00003
 Date of first issue: 24.11.2014

es; (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

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