according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

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

1.1 Product identifier

Trade name : MOLYKOTE(R) 106 ANTI FRICTION COATING

Product code : 00000000004102220, 000000000004102220

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

PO box : 65091

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)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single ex-

posure, Category 3

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single ex- H335: May cause respiratory irritation.



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

posure, Category 3

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms









Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or

repeated exposure.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre-

sent and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Butan-1-ol

Xylene

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200)



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

2.3 Other hazards

Static-accumulating flammable liquid. Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic and organic compounds

dispersion

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Butan-1-ol	71-36-3 200-751-6 01-2119484630-38	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	>= 20 - < 30
Xylene	1330-20-7 215-535-7 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 10 - < 20
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200)	25068-38-6 500-033-5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 5 - < 10
Ethylbenzene	100-41-4 202-849-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 2.5 - < 10
Methanol	67-56-1 200-659-6 01-2119433307-44	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	>= 0.1 - < 1

For explanation of abbreviations see section 16.

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-



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

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.

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 immediately.

If swallowed, DO NOT induce vomiting.

Get medical attention.

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.

May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated

exposure.

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

High volume water jet



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

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

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod- :

ucts

Metal oxides
Sulphur oxides
Chlorine compounds
Nitrogen oxides (NOx)

Formaldehyde

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.

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.



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

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 : Ensure all equipment is electrically grounded before beginning

transfer operations.

This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before

beginning transfer operations.

Restrict flow velocity in order to reduce the accumulation of

static electricity.

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.

Non-sparking tools should be used. Keep container tightly closed.

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 tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

DOW CORNING

MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

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

Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

flammable gases

Explosives Gases

7.3 Specific end use(s)

 $\label{eq:Specific use} Specific use(s) \qquad \qquad : \quad \text{These precautions are for room temperature handling. Use at}$

elevated temperature or aerosol/spray applications may re-

quire added precautions.

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 pilicone industry (www.SELISC acm) or contact the

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	Control parameters	Basis
		of exposure)		
Butan-1-ol	71-36-3	STEL	50 ppm	GB EH40
			154 mg/m3	
Further information	Can be absor	bed through skin. Th	e assigned substances are t	hose for which
	there are cond	cerns that dermal ab	sorption will lead to systemic	toxicity.
Molybdenum sul-	1317-33-5	TWA	10 mg/m3	GB EH40
fide			(Molybdenum)	
		STEL	20 mg/m3	GB EH40
			(Molybdenum)	
Xylene	1330-20-7	TWA	50 ppm	GB EH40
			220 mg/m3	
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	GB EH40
			441 mg/m3	
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.			
		TWA	50 ppm	2000/39/EC
			221 mg/m3	
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm	2000/39/EC



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

		I	442 mg/m3	
Further information	Identifies the	possibility of significa	ant uptake through the skin,	Indicative
Graphite	7782-42-5	TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits			
			no specific short-term exposite exposure should be used 4 mg/m3	GB EH40
Further information	fractions of ai in accordance sampling and COSHH defin kind when pre 8-hour TWA of This means the above these I posure to the contain particular of any particular body response HSE distinguifully and respin material that a eavailable for of the fraction definitions and contain compishould be corrain gigure three	rborne dust which we with the methods degravimetric analysis ition of a substance esent at a concentrate of inhalable dust or 4 and any dust will be seen ust comply with ese must comply with eles of a wide range of lar particle after entre e that it elicits, dependent of the content of the	espirable dust and inhalable ill be collected when samplin escribed in MDHS14/3 General for respirable and inhalable in hazardous to health includes it in air equal to or greater mg.m-3 8-hour TWA of respondent to COSHH if people as ave been assigned specific the appropriate limit., Most in for sizes. The behaviour, depoy into the human respiratory and on the nature and size of ins for limit-setting purposes at approximates to the fraction mouth during breathing and biratory tract. Respirable dusing as exchange region of the all are given in MDHS14/3., Vir own assigned WEL, all the no specific short-term exposit exposure should be used	g is undertaken eral methods for dust, The s dust of any than 10 mg.m-3 birable dust. In exposed WELs and exndustrial dusts existion and fate system and the the particle. The termed 'inhalation of airborne is therefore that approximates the lung. Fuller Where dusts explain the limits are limit is listed,
Ethylbenzene Eurther information	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC
Further information	identifies tile	STEL	ant uptake through the skin, 200 ppm	2000/39/EC



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

1	ı	1	1004 / 0	1
			884 mg/m3	
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm	GB EH40
			441 mg/m3	
Further information			e assigned substances are t	
	there are cond	cerns that dermal ab	sorption will lead to systemic	toxicity.
		STEL	125 ppm	GB EH40
			552 mg/m3	
Further information	Can be absor	bed through skin. Th	e assigned substances are t	nose for which
	there are concerns that dermal absorption will lead to systemic toxicity.			
Methanol	67-56-1	TWA	200 ppm	2006/15/EC
			260 mg/m3	
Further information	Indicative, Identifies the possibility of significant uptake through the skin			
		TWA	200 ppm	GB EH40
			266 mg/m3	
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	250 ppm	GB EH40
			333 mg/m3	
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.			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Xylene	1330-20-7	methyl hippuric acid: 650 mmol/mol creatinine (Urine)	After shift	GB EH40 BAT

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Butan-1-ol	Workers	Inhalation	Long-term local ef- fects	310 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3.125 mg/kg bw/day
	Consumers	Inhalation	Long-term local ef- fects	55 mg/m3
2-Ethoxy-1-methylethyl acetate	Workers	Inhalation	Long-term systemic effects	302 mg/m3
	Workers	Inhalation	Acute systemic effects	608 mg/m3
	Workers	Skin contact	Long-term systemic effects	103 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	181 mg/m3
	Consumers	Inhalation	Acute systemic effects	365 mg/m3
	Consumers	Skin contact	Long-term systemic effects	62 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	13.1 mg/kg bw/day
Xylene	Workers	Inhalation	Acute systemic ef-	289 mg/m3



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

			fects	ĺ
	Workers	Inhalation	Acute local effects	289 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	174 mg/m3
	Consumers	Inhalation	Acute local effects	174 mg/m3
	Consumers	Skin contact	Long-term systemic effects	108 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	14.8 mg/m3
	Consumers	Ingestion	Long-term systemic effects	1.6 mg/kg bw/day
Graphite	Consumers	Inhalation	Long-term local ef- fects	0.3 mg/m3
	Consumers	Ingestion	Long-term systemic effects	813 mg/kg bw/day
	Workers	Inhalation	Long-term local ef- fects	1.2 mg/m3
Ethylbenzene	Workers	Inhalation	Acute local effects	293 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Consumers	Inhalation	Long-term systemic effects	15 mg/m3
	Consumers	Ingestion	Long-term systemic effects	1.6 mg/kg bw/day
Methanol	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Workers	Inhalation	Acute systemic ef- fects	260 mg/m3
	Workers	Inhalation	Acute local effects	260 mg/m3
	Workers	Skin contact	Long-term systemic effects	40 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	260 mg/m3
	Workers	Inhalation	Long-term local ef- fects	260 mg/m3
	Workers	Skin contact	Acute systemic ef- fects	8 mg/kg bw/day
	Workers	Inhalation	Acute systemic ef- fects	50 mg/m3
	Workers	Ingestion	Acute systemic ef- fects	8 mg/kg bw/day
	Workers	Inhalation	Acute local effects	50 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	50 mg/m3
	Workers	Ingestion	Long-term systemic	8 mg/kg



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

		effects	bw/day
Worke	rs Inhalation	Long-term local ef-	50 mg/m3
		fects	

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

Substance name	Environmental Compartment	Value
Butan-1-ol	Fresh water	0.082 mg/l
	Marine water	0.0082 mg/l
	Intermittent use/release	2.25 mg/l
	Sewage treatment plant	2476 mg/l
	Fresh water sediment	0.178 mg/kg
	Marine sediment	0.0178 mg/kg
	Soil	0.015 mg/kg
2-Ethoxy-1-methylethyl acetate	Fresh water	1.3 mg/l
	Marine water	0.13 mg/l
	Intermittent use/release	1.3 mg/l
	Sewage treatment plant	62.5 mg/l
	Fresh water sediment	6.4 mg/kg
	Marine sediment	0.64 mg/kg
	Soil	1.34 mg/kg
	Oral (Secondary Poisoning)	117 mg/kg food
Xylene	Fresh water	0.327 mg/l
	Marine water	0.327 mg/l
	Intermittent use/release	0.327 mg/l
	Sewage treatment plant	6.58 mg/l
	Fresh water sediment	12.46 mg/kg
	Marine sediment	12.46 mg/kg
	Soil	2.31 mg/kg
Ethylbenzene	Fresh water	0.1 mg/l
·	Marine water	0.01 mg/l
	Intermittent use/release	0.1 mg/l
	Sewage treatment plant	9.6 mg/l
	Fresh water sediment	13.7 mg/kg
	Soil	2.68 mg/kg
	Oral (Secondary Poisoning)	0.02 mg/kg food
Methanol	Fresh water	154 mg/l
	Marine water	15.4 mg/l
	Intermittent use/release	1540 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	570.4 mg/kg
	Soil	23.5 mg/kg

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10).

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:

Chemical resistant goggles must be worn.



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

If splashes are likely to occur, wear:

Face-shield

Hand protection

Material : Chemical-resistant 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. Take note that the product is flammable, which may impact the selection of hand protection. 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-

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.

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : viscous liquid

Colour : grey

Odour : solvent-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling

range

64 °C

Flash point : 29.5 °C

Method: Pensky-Martens closed cup

Evaporation rate : No data available



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Flammability (solid, gas) : Not applicable

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 : 1.165

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, kinematic : > 20.5 mm2/s

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 : Flammable liquid and vapour.

Vapours may form explosive mixture with air.

Can react with strong oxidizing agents.

When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapours. Safe handling conditions may be maintained by keeping vapour concentrations within the occupational exposure limit for

formaldehyde.

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Hazardous decomposition products will be formed at elevated

temperatures.

10.4 Conditions to avoid

Conditions to avoid : Handling operations that can promote accumulation of static

charges.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition : Formaldehyde

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.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

Butan-1-ol:

Acute oral toxicity : LD50 (Rat): 790 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 17.76 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 3,430 mg/kg



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Xylene:

Acute oral toxicity : LD50 (Rat): 4,300 mg/kg

Method: Directive 67/548/EEC, Annex V, B.1.

Acute inhalation toxicity : LC50 (Rat): 27.5 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute toxicity estimate: 11 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

Remarks: Based on harmonised classification in EU regulation

1272/2008, Annex VI

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg

Method: Expert judgement

Remarks: Based on harmonised classification in EU regulation

1272/2008, Annex VI

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Ethylbenzene:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17.2 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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

Methanol:

Acute oral toxicity : Acute toxicity estimate (Humans): 300 mg/kg

Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

Remarks: Based on harmonised classification in EU regulation

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

1272/2008, Annex VI

Acute dermal toxicity : Acute toxicity estimate (Humans): 300 mg/kg

Method: Expert judgement

Skin corrosion/irritation

Causes skin irritation.

Components:

Butan-1-ol:

Species: Rabbit Result: Skin irritation

Xylene:

Species: Rabbit Result: Skin irritation

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Result: Skin irritation

Methanol:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Butan-1-ol:

Species: Rabbit

Method: OECD Test Guideline 405 Result: Irreversible effects on the eye

Xylene:

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular

weight > 700 - 1200):

Result: Irritation to eyes, reversing within 21 days

Ethylbenzene:

Species: Rabbit

Result: No eye irritation

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Methanol:

Species: Rabbit Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Butan-1-ol:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Xylene:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: positive

Remarks: Based on data from similar materials

Assessment: Probability or evidence of skin sensitisation in humans

Ethylbenzene:

Test Type: Human repeat insult patch test (HRIPT)

Exposure routes: Skin contact

Result: negative

Methanol:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Germ cell mutagenicity

Not classified based on available information.

Components:

Butan-1-ol:

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

Method: OECD Test Guideline 476

Result: negative

Xylene:

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

Result: negative

: Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Skin contact

Result: negative

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

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

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Ethylbenzene:

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

Result: negative

: Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with

mammalian liver cells in vivo

Species: Mouse

Application Route: Inhalation Method: OECD Test Guideline 486

Result: negative

Methanol:



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

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

Method: OECD Test Guideline 471

Result: negative

: Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

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

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Xylene:

Species: Rat

Application Route: Ingestion Exposure time: 103 weeks

Result: negative

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Species: Rat

Application Route: Ingestion Exposure time: 24 month(s)

Method: OECD Test Guideline 453

Result: negative

Remarks: Based on data from similar materials

Ethylbenzene:

Species: Rat

Application Route: Inhalation Exposure time: 104 weeks

Result: positive

Remarks: The mechanism or mode of action may not be relevant in humans.

Methanol:

Species: Mouse

Application Route: inhalation (vapour)

Exposure time: 18 Months

Method: OECD Test Guideline 453

Result: negative

Reproductive toxicity

Not classified based on available information.



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Components:

Butan-1-ol:

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

Species: Rat

Application Route: inhalation (vapour) Method: OECD Test Guideline 416

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

Xylene:

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

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

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

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

Ethylbenzene:

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

Species: Rat

Application Route: inhalation (vapour) Method: OECD Test Guideline 415

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Inhalation Method: OECD Test Guideline 414



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Result: negative

Methanol:

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Mouse

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 414

Result: positive

Remarks: The effects were seen only at maternally toxic dos-

es.

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Components:

Butan-1-ol:

Assessment: May cause respiratory irritation.

Assessment: May cause drowsiness or dizziness.

Xylene:

Assessment: May cause respiratory irritation.

Methanol:

Target Organs: Eyes, Central nervous system Assessment: Causes damage to organs.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Xylene:

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system, Liver, Kidney

Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to

1 mg/l/6h/d.

Ethylbenzene:

Exposure routes: inhalation (vapour) Target Organs: Auditory system

Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to

1 mg/l/6h/d.



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Repeated dose toxicity

Components:

Butan-1-ol:

Species: Rat NOAEL: 125 mg/kg

Application Route: Ingestion Exposure time: 13 Weeks

Xylene:

Species: Rat NOAEL: 4.35 mg/l

Application Route: inhalation (vapour)

Exposure time: 90 Days

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Species: Rat NOAEL: 50 mg/kg LOAEL: 250 mg/kg

Application Route: Ingestion Exposure time: 14 Weeks

Method: OECD Test Guideline 408

Remarks: Based on data from similar materials

Ethylbenzene:

Species: Rat, female LOAEL: 75 ppm

Application Route: inhalation (vapour)

Exposure time: 104 Weeks

Methanol:

Species: Rat NOAEL: 1.06 mg/l

Application Route: inhalation (vapour)

Exposure time: 90 Days

Aspiration toxicity

Not classified based on available information.

Components:

Xylene:

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.

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be re-

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) 106 ANTI FRICTION COATING

Version Revision Date: SDS Number: Date of last issue: 12.10.2015 19.03.2016 1066011-00005 Date of first issue: 05.01.2015 3.1

garded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Butan-1-ol:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 1,376 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,328 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae EC50 (Desmodesmus subspicatus (green algae)): 225 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to bacteria EC50 (Pseudomonas putida): 4,390 mg/l

Exposure time: 17 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 4.1 mg/l Exposure time: 21 d

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

Xylene:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

IC50 (Daphnia magna (Water flea)): 1 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): 1.9 Toxicity to algae

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

ErC50 (Pseudokirchneriella subcapitata (green algae)): 4.36

ma/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Toxicity to bacteria : EC50 : > 157 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC: > 1.3 mg/l Exposure time: 56 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

EC10: 1.91 mg/l Exposure time: 21 d

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

Remarks: Based on data from similar materials

Ethylbenzene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 5.4

mg/I

Exposure time: 72 h

Toxicity to bacteria : EC50 (Nitrosomonas sp.): 96 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 209

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.96 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia (water flea)

Methanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 22,000

mg/l

Exposure time: 96 h Method: OPPTS 850.5400

Toxicity to bacteria : EC50 : 20,000 mg/l

Exposure time: 15 h

Toxicity to fish (Chronic tox-

icity)

NOEC: 15,800 mg/l Exposure time: 200 h

Species: Oryzias latipes (Orange-red killifish)

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

12.2 Persistence and degradability

Components:

Butan-1-ol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 92 % Exposure time: 20 d

Xylene:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 87.8 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular

weight > 700 - 1200):

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Ethylbenzene:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 70 - 80 % Exposure time: 28 d

Methanol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 95 % Exposure time: 20 d

12.3 Bioaccumulative potential

Components:

Butan-1-ol:

Partition coefficient: n-

octanol/water

: log Pow: 1

Xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 5.4 - 25.9

Partition coefficient: n-

octanol/water

log Pow: 3.12 - 3.2



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

Ethylbenzene:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): < 100

Remarks: Based on data from similar materials

Partition coefficient: n-

octanol/water

log Pow: 3.6

Methanol:

Bioaccumulation : Species: Leuciscus idus (Golden orfe)

Bioconcentration factor (BCF): < 10

Partition coefficient: n-

octanol/water

log Pow: -0.77

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-

dling site for recycling or disposal.

Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN : UN 1993
ADR : UN 1993
RID : UN 1993
IMDG : UN 1993

according to Regulation (EC) No. 1907/2006



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

IATA : UN 1993

14.2 UN proper shipping name

ADN : FLAMMABLE LIQUID, N.O.S.

(Ethylbenzene, Butan-1-ol)

ADR : FLAMMABLE LIQUID, N.O.S.

(Ethylbenzene, Butan-1-ol)

RID : FLAMMABLE LIQUID, N.O.S.

(Ethylbenzene, Butan-1-ol)

IMDG : FLAMMABLE LIQUID, N.O.S.

(Ethylbenzene, Butan-1-ol)

IATA : Flammable liquid, n.o.s.

(Ethylbenzene, Butan-1-ol)

14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y344

366



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

355

Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen-

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

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 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

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

lutants

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

najor-accident nazarus involving dangerous substances.

Quantity 1 Quantity 2

P5c FLAMMABLE LIQUIDS 5,000 t 50,000 t

Other regulations : Take note of Directive 92/85/EEC regarding maternity protec-

tion or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

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.

AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

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

TSCA : All chemical substances in this material are included on or

exempted from listing on the TSCA Inventory of Chemical

Substances.

ENCS/ISHL : Some components are not listed or not identified on

ENCS/ISHL.

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

PICCS : Consult your local Dow Corning office.

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).

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.
H226 : Flammable liquid and vapour.

H301 : Toxic if swallowed. H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H311 : Toxic in contact with skin.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H331 : Toxic if inhaled. H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness.

H370 : Causes damage to organs.

H373 : May cause damage to organs through prolonged or repeated

DOW CORNING

MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

exposure.

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic

Asp. Tox.

Eye Dam.

Eye Irrit.

Flam. Liq.

Skin Irrit.

Skin Sens.

: Chronic aquatic toxicity

Aspiration hazard

Eye damage

Eye irritation

Flammable liquids

Skin irritation

Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure 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

2006/15/EC : Europe. Indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values

2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit 2006/15/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



MOLYKOTE(R) 106 ANTI FRICTION COATING

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 12.10.2015

 3.1
 19.03.2016
 1066011-00005
 Date of first issue: 05.01.2015

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 Agentus http://ocha.gov/

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