

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides
Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information.,
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

MLS 5036 Polyol

Version 2.0 Revision Date: 16.01.2020 SDS Number: Date of last issue: 14.09.2016
Date of first issue: 14.09.2016

Print Date 05.02.2020

Substance name	End Use	Exposure routes	Potential health effects	Value
bis(isopropyl)naphthalene	Workers	Inhalation	Systemic effects, Long-term exposure	30 mg/m ³
	Workers	Dermal	Systemic effects, Long-term exposure	4.3 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Long-term exposure	7.4 mg/m ³
2,6-di-tert-butyl-p-cresol	Consumers	Dermal	Systemic effects, Long-term exposure	2.1 mg/kg bw/day
	Consumers	Oral	Systemic effects, Long-term exposure	2.1 mg/kg bw/day
	Workers	Dermal	Systemic effects, Long-term exposure	8.3 mg/kg bw/day
1,1',1",1'''-Ethylenedinitrilotetrapropan-2-ol	Workers	Inhalation	Systemic effects, Long-term exposure	5.8 mg/m ³
	Consumers	Dermal	Systemic effects, Long-term exposure	5 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Long-term exposure	1.74 mg/m ³
1,1',1",1'''-Ethylenedinitrilotetrapropan-2-ol	Workers	Inhalation	Long-term systemic effects	29.4 mg/m ³
	Workers	Dermal	Long-term systemic effects	4.2 mg/kg
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m ³
	Consumers	Dermal	Long-term systemic effects	2.5 mg/kg
1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	Consumers	Oral	Long-term systemic effects	2.5 mg/kg
	Workers	Inhalation	Long-term systemic effects	110 mg/m ³
	Workers	Dermal	Long-term systemic effects	31.2 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32.6 mg/m ³
Bis(isopropyl)naphthalene	Consumers	Oral	Long-term systemic effects	18.8 mg/kg
	Consumers	Dermal	Long-term systemic effects	18.8 mg/kg
	Workers	Inhalation	Systemic effects, Long-term exposure	30 mg/m ³
	Workers	Dermal	Systemic effects, Long-term exposure	4.3 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Long-term exposure	7.4 mg/m ³

MLS 5036 Polyol

Version 2.0 Revision Date: 16.01.2020 SDS Number: Date of last issue: 14.09.2016
Date of first issue: 14.09.2016

Print Date 05.02.2020

	Consumers	Dermal	Systemic effects, Long-term exposure	2.1 mg/kg bw/day
	Consumers	Oral	Systemic effects, Long-term exposure	2.1 mg/kg bw/day
Terphenyl, hydrogenated	Workers	Inhalation	Long-term systemic effects	8.38 mg/m3
	Workers	Inhalation	Long-term local effects	83.8 mg/m3
	Workers	Dermal	Long-term systemic effects	46.3 mg/kg
	Workers	Dermal	Long-term local effects	0.2 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
	Consumers	Inhalation	Long-term local effects	25 mg/m3
	Consumers	Dermal	Long-term systemic effects	27.8 mg/kg
	Consumers	Dermal	Long-term local effects	1.23 mg/m3
	Consumers	Oral	Long-term systemic effects	0.3 mg/kg
1-Methyl-2-pyrrolidone	Workers	Inhalation	Long-term local effects	40 mg/m3
	Workers	Inhalation	Long-term systemic effects	14.4 mg/m3
	Workers	Dermal	Long-term systemic effects	4.8 mg/kg
	Consumers	Inhalation	Long-term local effects	4.5 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3.6 mg/m3
	Consumers	Dermal	Long-term local effects	2.4 mg/kg
	Consumers	Oral		0.85 mg/kg

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

Substance name	Environmental Compartment	Value
bis(isopropyl)naphthalene	Fresh water	0.26 µg/l
Remarks:	Assessment Factors	
	Marine water	0.026 µg/l
	Assessment Factors	
	Sewage treatment plant	0.15 mg/l
	Assessment Factors	
	Fresh water sediment	0.94 mg/kg
	Equilibrium method	

MLS 5036 Polyol

Version 2.0 Revision Date: 16.01.2020 SDS Number: Date of last issue: 14.09.2016
Date of first issue: 14.09.2016

Print Date 05.02.2020

	Marine sediment	0.094 mg/kg
	Equilibrium method	
	Soil	0.1872 mg/kg
	Equilibrium method	
	Secondary Poisoning	25 mg/kg
	Assessment Factors	
2,6-di-tert-butyl-p-cresol	Fresh water	0.004 mg/l
	Marine water	0.0004 mg/l
	Freshwater - intermittent	0.004 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	1.29 mg/kg
	Soil	1.04 mg/kg
	Secondary Poisoning	16.7 mg/kg
1,1',1",1'''- Ethylenedinitrilotetrapropan-2-ol	Fresh water	0.085 mg/l
	Assessment Factors	
	Marine water	0.0085 mg/l
	Assessment Factors	
	Freshwater - intermittent	1.51 mg/l
	Assessment Factors	
	Fresh water sediment	0.193 mg/kg
	Equilibrium method	
	Marine sediment	0.0193 mg/kg
	Equilibrium method	
	Soil	0.0183 mg/kg
	Equilibrium method	
1-Isopropyl-2,2- dimethyltrimethylene diisobutyrate	Fresh water	0.014 mg/l
	Marine water	0.0014 mg/l
	Fresh water sediment	1.15 mg/kg
	Soil	0.926 mg/kg
	Sewage treatment plant	3 mg/l
Bis(isopropyl)naphthalene	Fresh water	0.26 µg/l
	Assessment Factors	
	Marine water	0.026 µg/l

MLS 5036 Polyol

Version 2.0 Revision Date: 16.01.2020 SDS Number: Date of last issue: 14.09.2016
Date of first issue: 14.09.2016

Print Date 05.02.2020

	Assessment Factors	
	Sewage treatment plant	0.15 mg/l
	Assessment Factors	
	Fresh water sediment	0.94 mg/kg
	Equilibrium method	
	Marine sediment	0.094 mg/kg
	Equilibrium method	
	Soil	0.1872 mg/kg
	Equilibrium method	
	Secondary Poisoning	25 mg/kg
	Assessment Factors	
Terphenyl, hydrogenated	Fresh water	0 mg/l
	Marine water	0 mg/l
	Intermittent use/release	0.001 mg/l
	Sewage treatment plant	10.3 mg/l
	Fresh water sediment	3.16 mg/kg
	Marine sediment	0.316 mg/kg
	Soil	0.631 mg/kg
	Secondary Poisoning	2.22 mg/kg
1-Methyl-2-pyrrolidone	Fresh water	0.25 mg/l
	Marine water	0.025 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1.09 mg/kg
	Marine sediment	0.109 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : butyl-rubber
Break through time : > 8 h

Material : Ethyl Vinyl Alcohol Laminate (EVAL)
Break through time : > 8 h

Material : Nitrile rubber

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Break through time	: 10 - 480 min
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation 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	: liquid
Colour	: yellow
Odour	: slight
Odour Threshold	: No data is available on the product itself.
pH	: No data is available on the product itself.
Freezing point	: No data is available on the product itself.
Melting point	: No data is available on the product itself.
Boiling point	: > 200 °C
Flash point	: 100 °C Method: estimated, closed cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Burning rate	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.
Lower explosion limit / Lower flammability limit	: No data is available on the product itself.

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Vapour pressure	: < 0.00001 hPa (25 °C)
Relative vapour density	: No data is available on the product itself.
Relative density	: No data is available on the product itself.
Density	: 0.98 g/cm ³ (25 °C)
Solubility(ies)	
Water solubility	: practically insoluble (20 °C)
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.
Decomposition temperature	: > 200 °C
Viscosity	
Viscosity, dynamic	: 100 - 320 mPa.s (25 °C)
Explosive properties	: No data is available on the product itself.
Oxidizing properties	: No data is available on the product itself.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition : carbon monoxide

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Method: OECD Test Guideline 401

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l
Exposure time: 6 h
Test atmosphere: vapour

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Acute inhalation toxicity : LC50 (Rat, male): > 5600 mg/m³
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

LC50 (Rat, male): > 9300 mg/m³
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Bis(isopropyl)naphthalene:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.64 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Terphenyl, hydrogenated:

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity

Terphenyl:

Acute inhalation toxicity : LC50 (Rat, male and female): > 3.8 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

toxicity

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402

Ethylenediamine, propoxylated:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol:

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

Bis(isopropyl)naphthalene:

Acute dermal toxicity : LD50 (Rat, male and female): > 4,500 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Terphenyl, hydrogenated:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: no
Assessment: The substance or mixture has no acute dermal toxicity

Terphenyl:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

1-Methyl-2-pyrrolidone:

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation

Components:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: yes

Ethylenediamine, propoxylated:

Species: Rabbit

Method: OECD Test Guideline 404

Remarks: slight irritation

Bis(isopropyl)naphthalene:

Species: Rabbit

Exposure time: 4 h

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: Normally reversible injuries

Terphenyl, hydrogenated:

Species: Rabbit

Exposure time: 24 h

Method: Other guidelines

Result: No skin irritation

1-Methyl-2-pyrrolidone:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Mild skin irritation

Serious eye damage/eye irritation

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Ammonia, propoxylated:

Result: Eye irritation

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Species: Rabbit

Assessment: No eye irritation

Method: OECD Test Guideline 405

Result: No eye irritation

Ethylenediamine, propoxylated:

Species: Rabbit

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Method: OECD Test Guideline 405
Result: Eye irritation
GLP: yes

1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol:
Species: Rabbit
Assessment: Irritant
Result: Irritating to eyes.

Bis(isopropyl)naphthalene:
Species: Rabbit
Assessment: No eye irritation
Method: OECD Test Guideline 405
Result: No eye irritation

Terphenyl, hydrogenated:
Species: Rabbit
Method: Draize Test
Result: No eye irritation
GLP: no

1-Methyl-2-pyrrolidone:
Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritating to eyes.

Respiratory or skin sensitisation

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Exposure routes: Skin
Species: Humans
Result: Does not cause skin sensitisation.

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:
Exposure routes: Skin
Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Ethylenediamine, propoxylated:
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Bis(isopropyl)naphthalene:
Test Type: Maximisation Test
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

: Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative

: Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

: Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Ethylenediamine, propoxylated:
Genotoxicity in vitro

: Concentration: 5000 ug/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

: Concentration: 2800 ug/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

: Concentration: 2800 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Bis(isopropyl)naphthalene:
Genotoxicity in vitro

: Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 9.5 - 60 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

: Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 92 mg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

: Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Concentration: 40 - 60 mg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Terphenyl, hydrogenated:
Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 482
Result: negative

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

: Metabolic activation: with and without metabolic activation
Method: In vitro mammalian cell gene mutation test
Result: negative

Terphenyl:
Genotoxicity in vitro

: Test Type: unscheduled DNA synthesis assay
Test system: mammalian liver cells
Concentration: 0.1 - 2ug/ml
Method: OECD Test Guideline 482
Result: negative
GLP: yes
Remarks: In vitro tests did not show mutagenic effects

1-Methyl-2-pyrrolidone:
Genotoxicity in vitro

: Concentration: 10000 ug/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

: Concentration: 5 mg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

: Concentration: 4 mg/ml
Method: OECD Test Guideline 482
Result: negative

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Result: Animal testing did not show any effects on fertility.

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Species: Rat, male
Application Route: Oral
Method: OECD Test Guideline 415

Species: Rat, female
Application Route: Oral
Method: OECD Test Guideline 415
Result: No effects on fertility and early embryonic development were detected.

Ethylenediamine, propoxylated:

Species: Rat, male and female
Application Route: Oral
General Toxicity - Parent: No observed adverse effect level:
300 mg/kg body weight
General Toxicity F1: No observed adverse effect level: 1,000
mg/kg body weight
Method: OECD Test Guideline 421
GLP: yes

1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol:

Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 422
Result: negative

Terphenyl, hydrogenated:

Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Frequency of Treatment: 7 days/week
General Toxicity - Parent: No observed adverse effect level:
1,000 ppm
General Toxicity F1: No observed adverse effect level: 1,000
ppm
Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.
GLP: yes

1-Methyl-2-pyrrolidone:

Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 416

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Effects on foetal development : Species: Rat, females
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level:
343 mg/kg body weight

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Developmental Toxicity: No observed adverse effect level:
343 mg/kg body weight
Method: OECD Test Guideline 414

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:
Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 414
Result: No teratogenic effects

Species: Rat
Application Route: Inhalation
General Toxicity Maternal: No observed adverse effect level:
500 mg/kg body weight
Result: No teratogenic effects

Ethylenediamine, propoxylated:

General Toxicity Maternal: No-observed-effect level: 1,000
mg/kg body weight
Embryo-foetal toxicity: No-observed-effect level: 1,000 mg/kg
body weight
Result: No data available

1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol:

Species: Rat, female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level:
400 mg/kg body weight
Result: No teratogenic effects

Bis(isopropyl)naphthalene:

Species: Rat, female
Application Route: Oral
Dose: 100, 250, 625 mg/kg
Duration of Single Treatment: 20 d
Frequency of Treatment: 7 days/week
General Toxicity Maternal: Lowest observed adverse effect
level: 250 mg/kg body weight
Teratogenicity: No observed adverse effect level: 625 mg/kg
body weight
Embryo-foetal toxicity: No observed adverse effect level: 625
mg/kg body weight
Method: Directive 67/548/EEC, Annex V, B.31.
Result: No teratogenic effects

Terphenyl, hydrogenated:

Species: Rat, female
Application Route: Oral
Dose: 125, 500, 1500 mg/kg bw/d
Frequency of Treatment: 1 daily
General Toxicity Maternal: No observed adverse effect level:
125 mg/kg body weight
Embryo-foetal toxicity: No observed adverse effect level: 500
mg/kg body weight

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Method: OECD Test Guideline 414
GLP: yes

1-Methyl-2-pyrrolidone:

Species: Rat, female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level:
125 mg/kg body weight
Method: OECD Test Guideline 414
Result: Teratogenic effects

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

Bis(isopropyl)naphthalene:

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Terphenyl, hydrogenated:

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

1-Methyl-2-pyrrolidone:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

STOT - single exposure

Components:

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

1-Methyl-2-pyrrolidone:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Species: Rat, male and female

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

NOAEL: 150 - 750
Application Route: Ingestion
Exposure time: 13 Weeks Number of exposures: 7 d
Method: Subchronic toxicity

Species: Rat, male and female
NOEL: 30 mg/kg
Application Route: Ingestion
Number of exposures: 7 d
Method: Subchronic toxicity

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:
Species: Rat, male and female
NOEC: >= 5000
Application Route: Inhalation
Test atmosphere: vapour
Exposure time: 14 Weeks Number of exposures: 7 d
Method: OECD Test Guideline 413

Species: Rat, male and female
NOEC: >= 1160
Application Route: Inhalation
Test atmosphere: vapour
Exposure time: 13 Weeks Number of exposures: 7 d
Method: OECD Test Guideline 413

Ethylenediamine. propoxylated:
Species: Rat, male and female
NOAEL: >= 1000
Application Route: Ingestion
Exposure time: 672 h Number of exposures: 1 h
Method: Subchronic toxicity
Remarks: see user defined free text

1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol:
Species: Rat, male and female
NOAEL: 1000
Application Route: Ingestion
Exposure time: 1,176 h Number of exposures: 7 d
Method: Subacute toxicity

Species: Rat, male and female
NOAEL: 300
Application Route: Ingestion
Exposure time: 1,176 h Number of exposures: 7 d
Method: Subacute toxicity

Bis(isopropyl)naphthalene:
Species: Rat, male and female
NOAEL: 170 mg/kg
Application Route: oral (feed)
Exposure time: 4,320 h Number of exposures: 7 d
Dose: 170, 340, and 670 mg/kg
Method: Subchronic toxicity

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:
May be fatal if swallowed and enters airways.

Bis(isopropyl)naphthalene:
May be fatal if swallowed and enters airways.

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Toxicity to fish : EC50 (Lepomis macrochirus (Bluegill sunfish)): ≥ 6 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: OECD Test Guideline 203
Remarks: No-observed-effect level

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 4,600 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: DIN 38412

LC50 (Leuciscus idus (Golden orfe)): 2,700 mg/l
Exposure time: 48 h
Test Type: static test
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : IC0 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : EC50 (Other): 150.67 mg/l
Exposure time: 72 h
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

Bis(isopropyl)naphthalene:

Toxicity to fish : LC50 : > 0.5 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.16 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

EL50 (Daphnia magna (Water flea)): 1.7 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOECr (Desmodesmus subspicatus (green algae)): ca. 0.15 mg/l
Exposure time: 72 h
Test Type: static test
Method: DIN 38412

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
2.0	16.01.2020		Date of first issue: 14.09.2016

Print Date 05.02.2020

octanol/water

Bis(isopropyl)naphthalene:
Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 60 d
Bioconcentration factor (BCF): 770 - 6,400
Test substance: Fresh water
Method: flow-through test

Partition coefficient: n-
octanol/water : log Pow: 6.081
Method: QSAR

Terphenyl, hydrogenated:
Partition coefficient: n-
octanol/water : log Pow: 6.5

1-Methyl-2-pyrrolidone:
Partition coefficient: n-
octanol/water : log Pow: -0.46 (25 °C)
Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

Ethylenediamine, propoxylated:
Distribution among : Koc: ca. 1.58
environmental compartments Method: OECD Test Guideline 121

Bis(isopropyl)naphthalene:
Distribution among : Koc: 36108
environmental compartments Method: QSAR

1-Methyl-2-pyrrolidone:
Distribution among : Koc: 20.94
environmental compartments Method: QSAR

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB)..

12.6 Other adverse effects

Product:

Additional ecological : An environmental hazard cannot be excluded in the event of
information unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MLS 5036 Polyol

Version	Revision Date:	SDS Number:	Date of last issue: 14.09.2016
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