SAFETY DATA SHEET according with (CE) No.1272/2008

MAXIPUR A

Revision date: 17/07/2016 Print date: 08/02/2017

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

1.1 Product identifier

MAXIPUR A

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

Use:
Binder for coating materials
For details of the identified uses according to REACH-Regulation (EU) No. 1907/2006 refer to the annex of this safety data sheet.

1.3 Details of the supplier of the safety data sheet

Company	:	PINTURAS KILNHER C/LLanterners 44.P.I. La Figuera 46394 Alacuas – Valencia- España
Telephone	:	+34 96 1505024
Fax	:	+34 96 1505024
E-mail		kilnher@kilnher.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, Category 3 (H226)
Skin irritation, Category 2 (H315)
Eye irritation, Category 2 (H319)
Specific target organ toxicity (repeated exposure), Category 2 (H373)

2.2 Label elements

Warning

Hazardous components which must be listed on the label
Xylene isomer mixture (with up to 20 % Ethylbenzene)

Hazard statements:
H226 Flammable liquid and vapour. H315 Causes skin irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P314 Get medical advice/ attention if you feel unwell.
P403 + P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

Risk of absorption through the skin of 1-methoxypropylacetate-2, xylene and ethylbenzene.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

3.2 Mixtures

polyol

Hazardous components

Xylene isomer mixture (with up to 20 %
Ethylbenzene) Concentration [wt.-%]: ca. 16.5
Index-No.: 601-022-00-9
EC-No.: 215-535-7
REACH Registration Number: 01-2119488216-32
CAS-No.: 1330-20-7
Classification (1272/2008/CE): Flam. Liq. 3 H226 Asp. Tox. 1 H304 Acute Tox. 4 Inhalative H332 Acute Tox. 4 Dermal H312 Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335 STOT RE 2 H373

WEL substance

2-methoxy-1-methylethyl acetate
Concentration [wt.-%]: ca. 16,5
Index-No.: 607-195-00-7
EC-No.: 203-603-9
REACH Registration Number: 01-2119475791-29
CAS-No.: 108-65-6
Classification (1272/2008/CE): Flam. Liq. 3 H226

n-Butyl acetate
Concentration [wt.-%]: ca. 25
EC-No.: 204-658-1
REACH Registration Number: 01-2119485493-29
CAS-No.: 123-86-4
Classification (1272/2008/CE): Flam. Liq. 3 H226 STOT SE 3 H336
Consideration of human health is not necessary according to REACH Regulation (EC) No 1907/2006 art. 14(4).

Candidate List of Substances of Very High Concern for Authorisation
This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Take off all contaminated clothing immediately.

If inhaled: Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required.

In case of skin contact: In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction.

In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.
If swallowed: DO NOT induce the patient to vomit, medical advice is required.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician: Basic first aid, decontamination, symptomatic treatment.

4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO2), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for fire-fighters

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on protective equipment (see section 8). Keep away from sources of ignition. Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

6.2 Environment related measures

Do not allow to escape into waterways, wastewater or soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.

6.4 Reference to other sections

For further disposal measures see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

If an annex according to REACH-Regulation (EU) No. 1907/2006 is attached to this MSDS, the general conditions of use are further specified in the corresponding exposure scenarios.

Provide sufficient air exchange and/or exhaust in work rooms.
Provided good ventilation and/or local exhaust systems are used, the Workplace Exposure Limit(s) stated in section 8 should not be exceeded.
Explosion protection required.
The personal protective measures described in section 8 must be observed. The precautions required in the handling of solvents must be taken. Avoid contact with skin and eyes and the inhalation of vapor.
Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday.
Keep working clothes separately. Change contaminated or soaked clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed in a cool and well ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.
Storage class (TRGS 510) : 3: Flammable liquids

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

If an annex according to Regulation (EU) No. 1907/2006 is attached to this MSDS, the general RMMs are further specified in the corresponding exposure scenarios.

UK Workplace Exposure Limits (WEL), per EH40 document (Health & Safety Executive). If no UK value exists, EU exposure limits given where available.

8.1 Control parameters

Components with workplace control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
Xylene isomer mixture (with up to 20 % Ethylbenzene)	1330-20-7	EH40 WEL	TWA	50 ppm 220 mg/m3		
Xylene isomer mixture (with up to 20 % Ethylbenzene)	1330-20-7	EH40 WEL	STEL	100 ppm 441 mg/m3		
Xylene isomer mixture (with up to 20 % Ethylbenzene)	1330-20-7	EH40 WEL				Dermal absorption possible
Xylene isomer mixture (with up to 20 % Ethylbenzene)	1330-20-7	EU ELV	TWA	50 ppm 221 mg/m3		Indicative
Xylene isomer mixture (with up to 20 % Ethylbenzene)	1330-20-7	EU ELV	STEL	100 ppm 442 mg/m3		Indicative
Xylene isomer mixture (with up to 20 % Ethylbenzene)	1330-20-7	EU ELV				Dermal absorption possible
2-methoxy-1-methyleth yl acetate	108-65-6	EH40 WEL	STEL	100 ppm 548 mg/m3		
2-methoxy-1-methyleth yl acetate	108-65-6	EH40 WEL				Dermal absorption possible
2-methoxy-1-methyleth yl acetate	108-65-6	EH40 WEL	TWA	50 ppm 274 mg/m3		
2-methoxy-1-methyleth yl acetate	108-65-6	EU ELV	TWA	50 ppm 275 mg/m3		Indicative
2-methoxy-1-methyleth yl acetate	108-65-6	EU ELV	STEL	100 ppm 550 mg/m3		Indicative
2-methoxy-1-methyleth yl acetate	108-65-6	EU ELV				Dermal absorption possible

Sustancia	No. CAS	Base	Tipo	Valor	Valor Límite Máximo	Observaciones
n-butil acetate	123-86-4	VLA (ES)	VLA-EC	200 ppm 965 mg/m³		
n-butil acetate	123-86-4	VLA (ES)	VLA-ED	150 ppm 724 mg/m³		

Derived No Effect Level (DNEL) or Derived Minimal Effect Level (DMEL)

Xylene isomer mixture (with up to 20 % Ethylbenzene)

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	77 mg/m3	
Workers	Inhalation	Acute systemic effects	289 mg/m3	
Workers	Inhalation	Acute local effects	289 mg/m3	
Workers	Dermal	Long-term systemic effects	180 mg/kg bw/day	
Consumers	Inhalation	Long-term systemic effects	14.8 mg/m3	
Consumers	Inhalation	Acute systemic effects	174 mg/m3	
Consumers	Inhalation	Acute local effects	174 mg/m3	
Consumers	Dermal	Long-term systemic effects	108 mg/kg bw/day	
Consumers	Oral	Long-term systemic effects	1.6 mg/kg bw/day	

2-methoxy-1-methylethyl acetate

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	275 mg/m3	
Workers	Dermal	Long-term systemic effects	153.5 mg/kg bw/day	
Consumers	Inhalation	Long-term systemic effects	33 mg/m3	
Consumers	Dermal	Long-term systemic effects	54.8 mg/kg bw/day	
Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day	

Predicted No Effect Concentration (PNEC)
Xylene isomer mixture (with up to 20 % Ethylbenzene)

Compartment	Value	Remarks
Fresh water	0.327 mg/l	
Fresh water sediment	12.46 mg/kg	dry weight
Marine water	0.327 mg/l	
Marine sediment	12.46 mg/kg	dry weight
Sewage treatment plant	6.58 mg/l	

Soil	2.31 mg/kg	dry weight

2-methoxy-1-methylethyl acetate

Compartment	Value	Remarks
Fresh water	0.635 mg/l	
Fresh water sediment	3.29 mg/kg	dry weight
Marine water	0.0635 mg/l	
Marine sediment	0.329 mg/kg	dry weight
Sewage treatment plant	100 mg/l	
Soil	0.29 mg/kg	dry weight
Intermittent use/release	6.35 mg/l	

n-Butyl acetate

Value type	Route of exposure	Health Effects	Value	Remarks
Worker (short-term)				
DNEL	Dermal	- systemic effects		Not derived
DNEL	Inhalation	- systemic effects	960 mg/m³ air	
DNEL	Dermal	- local effects		Not derived
DNEL	Inhalation	- local effects	960 mg/m³ air	
Worker (long-term)				
DNEL	Dermal	- systemic effects		Not derived
DNEL	Inhalation	- systemic effects	480 mg/m³ air	
DNEL	Dermal	- local effects		Not derived
DNEL	Inhalation	- local effects	480 mg/m³ air	
General population (short-term)				
DNEL	Dermal	- systemic effects		Not derived
DNEL	Inhalation	- systemic effects	859.7 mg/m³ air	
DNEL	Dermal	- local effects		Not derived
DNEL	Inhalation	- local effects	859.7 mg/m³ air	
General population (long-term)				
DNEL	Dermal	- systemic effects		Not derived
DNEL	Inhalation	- systemic effects	102.34 mg/m³ air	
DNEL	Dermal	- local effects		Not derived
DNEL	Inhalation	- local effects	102.34 mg/m³ air	

Compartment	Value	Remarks
Freshwater	0.18 mg/l	
Marine water	0.018 mg/l	
Fresh water sediment	0.981 mg/kg	
Marine sediment	0.0981 mg/kg	
Soil	0.0903 mg/kg	
STP (sewage-treatment plant)	35.6 mg/l	
Intermittent use/release	0.36 mg/l	

8.2 Exposure controls

Respiratory protection
Respiratory protection required in insufficiently ventilated working areas and during spraying.

Further recommendations regarding respiratory protection can be found in the individual exposure scenarios in the appendix.

Hand protection
Conditionally suitable materials for protective gloves; EN 374:
Fluorinated rubber - FKM (>= 0,4 mm)
Breakthrough time not tested; dispose of immediately after contamination.

Eye protection
Wear eye/face protection.

Skin and body protection
Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	liquid	
Colour:	yellowish	
Odour:	solvent-like	
Odour Threshold:	not established	
pH:	not applicable	
Pour point:	not established	
Boiling point/boiling range:	ca. 139 °C at 1,013 hPa	
Flash point:	ca. 32 °C	DIN 53213
Evaporation rate:	not established	
Flammability (solid, gas):	not applicable	
Burning number:	not applicable	
Upper/lower flammability or explosive limits:		
2-methoxy-1-methylethyl acetate	upper: 10.8 %(V) / lower: 1.5 %(V)	
Vapour pressure:	not established	
Vapour pressure of ingredients:		
Xylene isomers mixture	ca. 7 - 9 hPa at 20 °C	
2-methoxy-1-methylethyl acetate	ca. 5 hPa at 20 °C	
Vapour density:	not established	
Density:	ca. 1.11 g/cm³ at 20 °C	DIN 53217
Miscibility with water:	partly miscible at 15 °C	
n-Butyl acetate	upper: 7.5 %(V) / lower: 1.2 %(V)	
Vapour pressure:	not established	
Vapour pressure of ingredients:		
n-Butyl acetate	ca. 12 hPa at 20 °C	
Vapour density:	not established	
Density:	ca. 1.11 g/cm³ at 20 °C	DIN EN ISO 2811

Water solubility of ingredients:			
2-methoxy-1-methylethyl acetate	ca. 200 g/l	at 20 °C	
Surface tension:	not established		
Partition coefficient (n−octanol/water):	not established		
Auto-ignition temperature:	not applicable		
Ignition temperature:	ca. 370 °C		
Decomposition temperature:	not established		
Viscosity, dynamic:	ca. 3,000 mPa.s	at 23 °C	DIN EN ISO 3219/A.3
Explosive properties:	not established		
Dust explosion class:	not applicable		
Oxidising properties:	not established		

9.2 Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

SECTION 10: Stability and reactivity

10.1 Reactivity

This information is not available.

10.2 Chemical stability

This information is not available.

10.3 Possibility of hazardous reactions

This information is not available.

10.4 Conditions to avoid

This information is not available.

10.5 Incompatible materials

This information is not available.

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

SECTION 11: Toxicological information

Toxicological studies on the product are not yet available.

Please find below the data available to us:

11.1 Information on toxicological effects

Acute toxicity, oral
Polyester polyol
LD50 rat: > 2,000 mg/kg
Method: Directive 67/548/EEC, Annex V, B.1.
Studies of a comparable product.
Xylene isomer mixture (with up to 20 % Ethylbenzene)
LD50 rat: > 2,000 - 5,000 mg/kg
2-methoxy-1-methylethyl acetate
LD50 rat: 8,532 mg/kg

Acute toxicity, dermal
ATEmix (dermal):> 2,000 mg/kg
Method: Calculation method

Polyester polyol

Assessment: The substance or mixture has no acute dermal toxicity
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)

Assessment: Harmful in contact with skin.
Suppliers' information

2-methoxy-1-methylethyl acetate
LD50 rat: > 5,000 mg/kg
Method: OECD Test Guideline 402

Acute toxicity, inhalation
ATEmix (inhal.): > 5 mg/l, 4 h
Test atmosphere: dust/mist
Method: Calculation method

Polyester polyol
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Test atmosphere: vapour
Assessment: Harmful if inhaled.
Suppliers' information

2-methoxy-1-methylethyl acetate
LC50 rat: > 23.8 mg/l, 6 h
Test atmosphere: dust/mist

Primary skin irritation
Polyester polyol
Species: rabbit
Result: slight irritant
Classification: No skin irritation
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Result: irritating
Classification: Causes skin irritation.

2-methoxy-1-methylethyl acetate
Species: rabbit
Result: non-irritant
Classification: No skin irritation
Method: OECD Test Guideline 404

Primary mucosae irritation
Polyester polyol
Species: rabbit
Result: slight irritant
Classification: No eye irritation
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Result: irritating

Classification: Causes serious eye irritation.

2-methoxy-1-methylethyl acetate
Species: rabbit
Result: slight irritant
Classification: No eye irritation
Method: OECD Test Guideline 405

Sensitisation
Polyester polyol
Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 429
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Result: negative
Classification: Does not cause skin sensitization.

2-methoxy-1-methylethyl acetate
Skin sensitisation according to Magnusson/Kligmann (maximizing test):
Species: Guinea pig
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 406

Subacute, subchronic and prolonged toxicity
Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
LOAEL (Lowest observable adverse effect level): 150 mg/kg
Application Route: Oral
Species: rat, male/female
Dose Levels: 0 - 150 - 750 - 1500 mg/kg/day
Method: OECD Test Guideline 408

NOAEL: 250 mg/kg
Application Route: Oral
Species: rat, male/female
Dose Levels: 0 - 250 - 500 mg/kg/day
Method: OECD Test Guideline 453

2-methoxy-1-methylethyl acetate
NOAEL: 1,000 mg/kg
Application Route: Oral
Species: rat, male/female
Dose Levels: 100 - 300 - 1000 mg/kg/day
Method: OECD Test Guideline 422

Carcinogenicity
Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
NOAEL (Toxicity): 500 mg/kg
Species: rat, male/female

Application Route: Oral
Dose Levels: 0 - 250 - 500 mg/kg
Exposure duration: 103 week(s)
Frequency of treatment: 5 times/week
Animal testing did not show any carcinogenic effects.

NOAEL (Toxicity): 1,000 mg/kg

Species: Mouse, male/female
Application Route: Oral
Dose Levels: 0 - 500 - 1000 mg/kg
Exposure duration: 103 week(s)
Frequency of treatment: 5 times/week
Animal testing did not show any carcinogenic effects.

2-methoxy-1-methylethyl acetate
No data available.

Reproductive toxicity/Fertility
Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
NOAEL - Parents: 500 ppm
NOAEL (parents, generelly toxicity): 500
Test type: One-generation study
Species: rat, male/female
Application Route: Inhalative
Dose Levels: 0 - 60 - 250 - 500 ppm
Frequency of treatment: 6 hours/day 7 days/week
No toxicity to reproduction

NOAEL - Parents: 500 ppm
NOAEL – F1: > 500 ppm
NOAEL – F2: > 500 ppm
Test type: Two-generation study
Species: rat, male/female
Application Route: Inhalative
Dose Levels: 0 - 25 - 100 -500 ppm
No toxicity to reproduction

2-methoxy-1-methylethyl acetate
NOAEL - Parents: 300 ppm
NOAEL – F1: 1000 ppm
NOAEL – F2: 1000 ppm
Test type: Two-generation study
Species: rat, male/female
Application Route: Inhalative
Frequency of treatment: 6 hours/day 7 days/week
Method: OECD Test Guideline 416
Studies of a comparable product.

Reproductive toxicity/Teratogenicity
Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
NOAEL (teratogenicity): > 2000 ppm
NOAEL (maternal): 500 ppm
NOAEL (developmental toxicity): 500 ppm
Species: rat, female
Application Route: Inhalative
Dose Levels: 0 - 100 - 500 - 1000 - 2000 ppm
Frequency of treatment: Daily from day 6 to day 20 of the gestation
Method: OECD Test Guideline 414

2-methoxy-1-methylethyl acetate
NOAEL (teratogenicity): 1500 ppm
NOAEL (maternal): 1500 ppm
Species: rat, female
Application Route: Inhalative
Dose Levels: 0 - 500 - 1500 - 3000 ppm
Frequency of treatment: 6 hours/day (Exposure duration: 10 days (day 6 - 15 p.c.))
Method: OECD Test Guideline 414

Genotoxicity in vitro
Polyester polyol
Test type: Salmonella/microsome test (Ames test)
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 471
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Test type: Ames test
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 471

Test type: Chromosome aberration test in vitro
Metabolic activation: with/without
Result: negative

Test type: In vitro mammalian cell gene mutation test
Metabolic activation: with/without
Result: negative

2-methoxy-1-methylethyl acetate
Test type: Ames test
Metabolic activation: with/without
Result: No indication of mutagenic effects.
Method: OECD Test Guideline 471

Test type: Unscheduled DNA synthesis (UDS)
Result: negative
Method: OECD Test Guideline 482

Genotoxicity in vivo
Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Test type: Dominant Lethal Assay
Species: rat, male
Application Route: intraperitoneal
Result: negative
Method: OECD Test Guideline 478

2-methoxy-1-methylethyl acetate
No data available.

STOT evaluation – one-time exposure
Polyester polyol
no data available

Xylene isomer mixture (with up to 20 % Ethylbenzene)
May cause respiratory irritation.

2-methoxy-1-methylethyl acetate
Based on available data, the classification criteria are not met.

STOT evaluation – repeated exposure
Polyester polyol
no data available

Target Organs: auditory system
May cause damage to organs through prolonged or repeated exposure.

2-methoxy-1-methylethyl acetate
Based on available data, the classification criteria are not met.

Aspiration toxicity

Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
May be fatal if swallowed and enters airways.

2-methoxy-1-methylethyl acetate
Based on available data, the classification criteria are not met.

CMR Assessment
Polyester polyol
Carcinogenicity: No data available.
Mutagenicity: Based on available data, the classification criteria are not met.
Teratogenicity: No data available.
Reproductive toxicity/Fertility: No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Carcinogenicity: Based on available data, the classification criteria are not met.
Mutagenicity: Based on available data, the classification criteria are not met.
Teratogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

2-methoxy-1-methylethyl acetate
Carcinogenicity: No data available.
Mutagenicity: Based on available data, the classification criteria are not met.
Teratogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

Additional information
Xylene isomer mixture (with up to 20 % Ethylbenzene)
Risk of cutaneous absorption. Aromatic hydrocarbons irritate the skin and mucous membranes and are narcotic if inhaled in high concentrations. repeated or prolonged contact may cause irritation and dermatitis.

2-methoxy-1-methylethyl acetate
Risk of cutaneous absorption.

SECTION 12: Ecological information

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

Please find below the data available to us:

12.1 Toxicity

Acute Fish toxicity
polyol LC50 > 100
mg/l
Species: Brachydanio rerio (Zebra barbel)
Exposure duration: 96 h
Studies of a comparable product.

LC50 2.6 mg/l
Species: Oncorhynchus mykiss (rainbow trout)
Exposure duration: 96 h

2-methoxy-1-methylethyl acetate
LC50 > 100 mg/l
Species: Oryzias latipes (Orange-red killifish)
Exposure duration: 96 h
Method: OECD Test Guideline 203

Chronic Fish toxicity
Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
No data available.

2-methoxy-1-methylethyl acetate
NOEC 47.5 mg/l
Species: Oryzias latipes (Orange-red killifish)
Exposure duration: 14 d

Acute toxicity for daphnia
Polyester polyol
EC50 > 100 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
EC50 > 1 - 10 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h

2-methoxy-1-methylethyl acetate
EC50 > 500 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Chronic toxicity to daphnia
Polyester polyol
No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
No data available.

2-methoxy-1-methylethyl acetate
NOEC > 100 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 21 d
Method: OECD Test Guideline 211

Acute toxicity for algae
Polyester polyol
no data available

Xylene isomer mixture (with up to 20 % Ethylbenzene)
IC50 2.2 mg/l
Species: algae
Exposure duration: 72 h

2-methoxy-1-methylethyl acetate
ErC50 > 1,000 mg/l
Species: Pseudokirchneriella subcapitata (green algae)
Exposure duration: 72 h

Method: OECD Test Guideline 201

Acute bacterial toxicity
Polyester polyol EC50 >
1,000 mg/l Species:
activated sludge
Method: OECD Test Guideline 209
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
EC50 96 mg/l
Species: Bacteria
Exposure duration: 24 h
Studies of a comparable product.

2-methoxy-1-methylethyl acetate
EC20 > 1,000 mg/l
Species: activated sludge
Exposure duration: 0.5 h
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Biodegradability
Polyester polyol
Biodegradation: < 60 %, 28 d, i.e. not readily degradable
Method: OECD Test Guideline 301 F
Studies of a comparable product.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
Biodegradation: > 60 %, 28 d, i.e. readily biodegradable
Method: OECD Test Guideline 301 F

2-methoxy-1-methylethyl acetate
Biodegradation: 100 %, 8 d, i.e. inherently degradable
Method: OECD Test Guideline 302 B

Biodegradation: > 90 %, 28 d, i.e. readily biodegradable
Method: OECD Test Guideline 301 F

Adsorbed organic bound halogens (AOX)
2-methoxy-1-methylethyl acetate

Product does not contain any organic halogens.

12.3 Bioaccumulative potential

Bioaccumulation
Xylene isomer mixture (with up to 20 % Ethylbenzene)
Bioconcentration factor (BCF): 25.9

2-methoxy-1-methylethyl acetate
Accumulation in aquatic organisms is unlikely.

Partition coefficient (n−octanol/water)
Xylene isomer mixture (with up to 20 % Ethylbenzene)

log Pow: 3.15

12.4 Mobility in soil

Distribution among environmental compartments
Xylene isomer mixture (with up to 20 % Ethylbenzene)
The product evaporates readily.

12.5 Results of PBT and vPvB assessment

Polyester polyol

No data available.

Xylene isomer mixture (with up to 20 % Ethylbenzene)
This substance does not meet the criteria for classification as PBT or vPvB.

2-methoxy-1-methylethyl acetate
This substance does not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

SECTION 14: Transport information

ADR/RID

14.1 UN number	:	UN 1263
14.2 UN proper shipping name	:	PAINT
14.3 Transport hazard class(es)	:	3
Hazard Identification Number	:	30
14.4 Packing group	:	III
14.5 Environmental hazards	:	no

Special regulation for 'viscous substances' applicable

ADN

14.1 UN number	:	1263
14.2 UN proper shipping name	:	PAINT
14.3 Transport hazard class(es)	:	3
Hazard Identification Number	:	30
14.4 Packing group	:	III
14.5 Environmental hazards	:	no

This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.

IATA

14.1 UN number	:	1263
14.2 UN proper shipping name	:	PAINT
14.3 Transport hazard class(es)	:	3
14.4 Packing group	:	III
14.5 Environmental hazards	:	no

IMDG

14.1 UN number	:	1263
14.2 UN proper shipping name	:	PAINT
14.3 Transport hazard class(es)	:	3
14.4 Packing group	:	III
14.5 Environmental hazards	:	no

14.6 Special precautions for user

See section 6 - 8.

Additional information : Combustible.
Keep separated from foodstuffs.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.
P5c Flammable liquids
Quantity1: 5,000 t Quantity2: 50,000 t

Water contaminating class (Germany)
2 water endangering
(in accordance with Annex 4 to the Directive on Water-Hazardous Substances)

Any national regulations for the handling of solvents and hazardous substances must be observed.

SECTION 16: Other information

Full text of the hazard statements of the CLP classification (1272/2008/CE) referred to under sections 2, 3 and 10.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Further information
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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.