



DESMOPHEN 800 MPA

Version 2.6

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

1.1 Product identifier

DESMOPHEN 800 MPA

Material number: 00835226

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

Use:

Binder for coating materials or adhesives

1.3 Details of the supplier of the safety data sheet

Covestro Pty Ltd.
Level 1, 700 Springvale Road
MULGRAVE, VIC 3170
AUSTRALIA

Phone: (61) 3-9581-9888
e-mail: productsafetyapac@covestro.com

1.4 Emergency telephone number

IXOM SH&E Shared Services
In Australia: 1800 033 111, In New Zealand: 0800 734 607

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification:

Non-hazardous substance according to GHS classification

2.2 Label elements

GHS-Labeling

Non-hazardous substance according to GHS classification

NON-HAZARDOUS according to the criteria of NOHSC NON-DANGEROUS GOODS

2.3 Other hazards

Risk of absorption through the skin of 1-methoxypropylacetate-2.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

3.2 Mixtures

polyester polyol

ca. 85 % in 1-methoxypropylacetate-2

Hazardous components

2-methoxy-1-methylethyl acetate

Concentration [wt.-%]: ca. 15

EC-No.: 203-603-9

CAS-No.: 108-65-6

GHS Classification: Flam. Liq. 3 H226 STOT SE 3 H336

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

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.

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.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
2-methoxy-1-methylethyl acetate	108-65-6	AU NOEL	STEL	100 ppm 548 mg/m3		
2-methoxy-1-methylethyl acetate	108-65-6	AU NOEL				Dermal absorption possible
2-methoxy-1-methylethyl acetate	108-65-6	AU NOEL	TWA	50 ppm 274 mg/m3		
2-methoxy-1-methylethyl acetate	108-65-6	AU OEL	TWA	50 ppm 274 mg/m3		
2-methoxy-1-methylethyl acetate	108-65-6	AU OEL	STEL	100 ppm 548 mg/m3		
2-methoxy-1-methylethyl acetate	108-65-6	AU OEL				Dermal absorption possible

8.2 Exposure controls**Respiratory protection**

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

Hand protection

Suitable materials for safety gloves; EN 374:

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Recommendation: contaminated gloves should be disposed of.

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	
Boiling point/boiling range:	160 °C	DIN 53171
Flash point:	ca. 62 °C at 1.013 hPa	DIN 51755
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:	6 hPa at 20 °C	EG A4
	22 hPa at 50 °C	EG A4
	27 hPa at 55 °C	EG A4
Vapour pressure of ingredients:		
2-methoxy-1-methylethyl acetate	ca. 5 hPa at 20 °C	
Vapour density:	not established	
Density:	ca. 1,15 g/cm ³ at 20 °C	DIN 51757
Miscibility with water:	immiscible at 15 °C	
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:	not applicable	
Decomposition temperature:	not established	
Viscosity, dynamic:	11.000 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.

2-methoxy-1-methylethyl acetate

LD50 rat, male/female: 6.190 mg/kg

Method: OECD Test Guideline 401

Acute toxicity, dermal

Polyester polyol

Assessment: The substance or mixture has no acute dermal toxicity

Studies of a comparable product.

2-methoxy-1-methylethyl acetate

LD50 rat: > 5.000 mg/kg

Method: OECD Test Guideline 402

Acute toxicity, inhalation

Polyester polyol

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Studies of a comparable product.

2-methoxy-1-methylethyl acetate

LC50 rat, male:

> 2000 ppm, 3 h

Test atmosphere: gas

Assessment: The substance or mixture has no acute inhalation toxicity

Primary skin irritation

Polyester polyol

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

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.

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.

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

Respiratory sensitization

No data available.

Subacute, subchronic and prolonged toxicity

Polyester polyol
No data available.

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.

2-methoxy-1-methylethyl acetate
NOAEL (Toxicity): $\geq 11,07$ mg/l
Species: rat, male/female
Application Route: Inhalative
Exposure duration: 24 month(s)
Frequency of treatment: 6 hours/day, 5 days/week
Studies of a comparable product.

Reproductive toxicity/Fertility

Polyester polyol
No data available.

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/Developmental Toxicity/Teratogenicity

Polyester polyol
No data available.

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.

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.

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

STOT evaluation – one-time exposure

Polyester polyol
no data available

2-methoxy-1-methylethyl acetate
May cause drowsiness or dizziness.

STOT evaluation – repeated exposure

Polyester polyol
no data available

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

Aspiration toxicity

Polyester polyol
No data available.

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.

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.

Toxicology Assessment

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

Additional information

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**

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

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.

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.

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.

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

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.

2-methoxy-1-methylethyl acetate
EC20 > 1.000 mg/l
Species: activated sludge
Exposure duration: 0,5 h
Method: OECD Test Guideline 209

Ecotoxicology Assessment

2-methoxy-1-methylethyl acetate
Acute aquatic toxicity: Based on available data, the classification criteria are not met.
Chronic aquatic toxicity: Based on available data, the classification criteria are not met.

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.

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

2-methoxy-1-methylethyl acetate

Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

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

ADG7 -

Australia

14.1 UN number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

IATA

14.1 UN number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

IMDG

14.1 UN number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Marine pollutant	:	Not dangerous goods

14.6 Special precautions for user

See section 6 - 8.

Additional information : Not dangerous cargo.

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

No poison schedule number allocated

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.
H336	May cause drowsiness or dizziness.

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.