



DESMOPHEN 2028 I FUSED

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

1.1 Product identifier

DESMOPHEN 2028 I FUSED

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 Deutschland AG
COV-CTO-HSEQ-PSRA-PSI
51365 Leverkusen

Tel.: +49 214 6009 4068
Email: ProductSafetyEMLA@covestro.com

1.4 Emergency telephone number

+1-703-527-3887 (Chemtrec)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification in accordance with the Regulation (EC) No. 1272/2008.

2.2 Label elements

No labeling necessary according to the Regulation (EC) No. 1272/2008.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Type of product: Substance

3.1 Substances

polyester polyol

No dangerous ingredients according to REACH-Regulation (EC) No. 1907/2006.

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: Remove all contaminated clothing.

In case of skin contact: Wash off with soap and plenty of water.

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: No information available.

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). Granules - slip hazard! Keep unauthorised 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

Use mechanical handling equipment. Avoid dust formation. Fill into labeled, sealable 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**

Handle in accordance with good industrial hygiene and safety practice.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change heavily soiled 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) : 11: Combustible Solids

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

8.2 Exposure controls**Hand protection**

It is recommended that gloves be worn for reasons of hygiene. Suitable materials for gloves: All types of gloves are suitable.

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:	solid	
Colour:	yellowish	
Odour:	almost odourless	
Odour Threshold:	not established	
pH:	not applicable	
Freezing temperature:	24 - 27 °C	ISO 3016
Boiling point/boiling range:	> 300 °C at 1.013 hPa	DIN 53171
Flash point:	ca. 207 °C	DIN EN 22719
Evaporation rate:	not established	
Flammability:	not established	
Burning number:	not established	
Vapour pressure:	ca. 3 hPa at 20 °C	EG A4
	ca. 8 hPa at 50 °C	EG A4
	ca. 9 hPa at 55 °C	EG A4
Vapour density:	not established	
Density:	ca. 1,06 g/cm ³ at 75 °C	DIN 53217
Miscibility with water:	immiscible at 15 °C	
Surface tension:	not established	

Partition coefficient (n-octanol/water):	not established	
Auto-ignition temperature:	not established	
Ignition temperature:	ca. 425 °C	DIN 51794
Decomposition temperature:	not established	
Viscosity, dynamic:	ca. 630 mPa.s at 75 °C	DIN EN ISO 3219/A.3
Explosive properties:	not established	
Dust explosion class:	not established	
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.

Acute toxicity, dermal

Polyester polyol

Assessment: The substance or mixture has no acute dermal toxicity

Studies of a comparable product.

Acute toxicity, inhalation

Polyester polyol

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Studies of a comparable product.

Primary skin irritation

Polyester polyol

Species: rabbit

Result: slight irritant

Classification: No skin irritation

Studies of a comparable product.

Primary mucosae irritation

Polyester polyol

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Studies of a comparable product.

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.

Subacute, subchronic and prolonged toxicity

Polyester polyol

No data available.

Carcinogenicity

Polyester polyol

No data available.

Reproductive toxicity/Fertility

Polyester polyol

No data available.

Reproductive toxicity/Teratogenicity

Polyester polyol

No data available.

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.

Genotoxicity in vivo

Polyester polyol

No data available.

STOT evaluation – one-time exposure

Polyester polyol

no data available

STOT evaluation – repeated exposure

Polyester polyol

no data available

Aspiration toxicity

Polyester polyol
No data available.

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.

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.

Chronic Fish toxicity

Polyester polyol
No data available.

Acute toxicity for daphnia

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

Chronic toxicity to daphnia

Polyester polyol
No data available.

Acute toxicity for algae

Polyester polyol
no data available

Acute bacterial toxicity

Polyester polyol
EC50 > 1.000 mg/l
Species: activated sludge
Method: OECD Test Guideline 209
Studies of a comparable product.

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.

12.3 Bioaccumulative potential

No data available.

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**ADR/RID**

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

ADN

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 Environmental hazards	:	Not dangerous goods

14.6 Special precautions for user

See section 6 - 8.

Additional information	:	Not dangerous cargo. Avoid heat above +50 °C. Keep dry. Keep away from foodstuffs, acids and alkalis.
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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.
not applicable

TA Luft List (Germany)

Type: Organic Substances

Fraction of other substances: 100 %

Water contaminating class (Germany)

1 slightly water endangering

(in accordance with Annex 4 to the Directive on Water-Hazardous Substances)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance / mixture resp. its components.

SECTION 16: Other information

No registration number is given for this substance because the substance or its use are exempt from registration according to article 2 of the Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is planned for a later date.

A safety data sheet is not required for this product under Article 31 of REACH. This Product safety information has been created on a voluntary basis to pass on relevant information required under Article 32.

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.