

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 1

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Dowanol PnP

Article No.: 70925

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Application as process solvent

Industrial application

Coatings

Application in cleaning substances

Lubricant

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Flammable liquids, hazard category 3

Eye irritation, hazard category 2

H226 Flammable liquid and vapour.

Cat.: 3

H319 Causes serious eye irritation.

Cat.: 2

Possible Environmental Effects:

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Hazard designation:

GHS02-1

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925

Dowanol PnP

Page 2

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022



GHS07

Signal word:

Warning

Hazard designation:

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Safety designation:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P280 Wear protective gloves/ clothing/ eye/ face protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P370+P378 In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403+P235 Store in a well ventilated place. Keep cool.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

1-Propoxy-2-propanol (H226-319); REACH Reg.-Nr. 01-2119474443-37	> 99 %	CAS-Nr: 1569-01-3 EINECS-Nr: 216-372-4 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Self-protection of the first-aider (protective clothes and eyewear, respiratory protection)

After inhalation:

Supply fresh air and seek medical advice in case of complaints.

After skin contact:

Wash off with plenty of water.

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 3

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

After eye contact:

*Rinse open eyes with plenty of water for at least 15 minutes.
Remove contact lens.
Consult a physician immediately.*

After ingestion:

*If swallowed get medical attention immediately.
Do not induce vomiting unless directed to do so by medical personnel.*

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water mist.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Formation of hazardous combustion gases or vapors possible in the event of fire.

In case of fire: formation of carbon monoxide, carbon dioxide.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Wear positive pressure self-contained breathing apparatus (SCBA).

Further information:

Cool exposed containers with water spray.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

Keep away from sources of ignition. No smoking.

Explosion hazards due to inflammable vapors.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 4

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (sand, vermiculite) and collect in appropriate containers for disposal.

6.4. Reference to other Sections

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Provide adequate ventilation.

Do not breathe vapors, aerosols.

Avoid contact with eyes.

It is recommended to provide a portable eye rinsing bottle.

Hygienic measures:

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store the product in the original tightly sealed containers in a dry and cool place.

Requirements for storage areas and containers:

Suitable container material: stainless steel, carbon steel. Steel barrels lined with phenol resin.

Unsuitable container material: aluminum, copper. Galvanized iron sheet, galvanized steel.

Information on fire and explosion protection:

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Avoid the formation of sparks resulting from cutting, grinding or welding near the product container.

Storage class:

Further Information:

Shelf-life: 24 months

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TWA: 50 ppm

Parameters to be controlled:

STEL: 75 ppm

Derived No-Effect Level (DNEL):

82.5 mg/kg bw/d (worker, skin contact, long-term exposition - systemic effects)

263 mg/m³ (worker, inhalation, long-term exposition - systemic effects)

next page. 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925

Dowanol PnP

Page 5

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

effects)
36 mg/kg bw/d (consumer, skin contact, long-term exposition - systemic effects)
38 mg/m³ (consumer, inhalation, long-term exposition - systemic effects)
11 mg/kg bw/d (consumer, swallowing, long-term exposition - systemic effects)

Predicted No-Effect Concentration (PNEC):

*Fresh water: 0.1 mg/l
Seawater: 0.01 mg/l
Fresh water sediment: 0.386 mg/kg
Sea water sediment: 0.039 mg/kg
Sewage treatment system (STP): 4 mg/l
Soil: 0.018 mg/kg*

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

Avoid contact with eyes.

Respiratory protection:

None required under normal operating conditions. Avoid inhalation of vapors/fumes.

Recommended: Filter A (organic vapors).

Hand protection:

Protective gloves (EN 374)

Protective glove material:

For short-term exposure:

Recommended: Protective index 3, corresponding > 60 min. of permeation time (EN 374).

For long-term exposure:

Recommended: Protective index 5, corresponding > 240 min. of permeation time (EN 374).

Butyl rubber, nitrile rubber (NBR), natural rubber (NR), polyvinyl chloride (PVC)

Eye protection:

Body protection:

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: colorless

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 6

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

Odor:	<i>like ether</i>
Odor threshold:	<i>no information available</i>
pH-Value:	<i>not available</i>
Melting temperature:	<i>-70°C (Lit.)</i>
Boiling temperature:	<i>149°C (1013 hPa; Lit.)</i>
Flash point:	<i>46°C (1013 hPa; Lit.)</i>
Evaporation rate:	<i>No information available.</i>
Flammability (solid, gas):	<i>not applicable</i>
Upper explosion limit:	<i>10.6 % (Lit.)</i>
Lower explosion limit:	<i>1.3 % (Lit.)</i>
Vapor pressure:	<i>3.8 hPa (25°C; Lit.)</i>
Vapor density:	
Density:	<i>0.8805 (25°C; Lit.)</i>
Solubility in water:	<i>completely miscible</i>
Coefficient of variation (n-Octanol/Water):	<i>0.621 log POW (calc.)</i>
Auto-ignition temperature:	<i>252°C (1013 hPa; Lit.)</i>
Decomposition temperature:	<i>No data available.</i>
Viscosity, dynamic:	<i>2.389 mPa.s (25°C; Lit.)</i>
Explosive properties:	<i>not explosive</i>
Oxidizing properties:	<i>not oxidizing</i>

9.2. Further Information

Solubility in solvents:	
Viscosity, kinematic:	<i>2.71 mm²/s (25°C; Lit.)</i>
Burning class:	
Solvent content:	
Solid content:	
Particle size:	
Other information:	

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 7

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

10. Stability and Reactivity

10.1. Reactivity

No information available.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

10.4. Conditions to Avoid

Conditions to avoid:

Do not distil until dry. The product can oxidize at elevated temperature. The gases formed when decomposed, can build up pressure in closed systems.

Thermal decomposition:

10.5. Incompatible Materials

Strong acids, strong bases and strong oxidizing agents.

10.6. Hazardous Decomposition Products

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral: > 2000 mg/kg (rat)

LD50, dermal: > 2000 mg/kg (rabbit)

LC50, inhalation: 8.34 mg/l (4h, rat)

Primary effects

Irritant effect on skin:

Prolonged contact can cause a slight irritation and redness. Repeated skin contact can cause an irritation or even a chemical burn.

The reaction can be intensified if the skin is damaged (abrasions or cuts).

Irritant effect on eyes:

May cause a moderate eye irritation. May cause a moderate corneal injury. Vapors can trigger a corneal damage.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Non sensitizing (mouse).

Mutagenicity:

In vitro genetic-toxicity: no mutagenic effects

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 8

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

Reproductive toxicity:

No negative effects known.

Carcinogenicity:

No relevant data found.

Teratogenicity:

Does not cause birth defects in laboratory animals. Animal studies indicated that it was toxic to the foetus at dosages which were also toxic for the mother animals.

Specific target organ toxicity (STOT):

*Single exposure: no organospecific toxicity expected.
Repeated exposure: negative effects have been observed in animal studies on the following organ: eyes.
May cause adverse effects on the central nervous system.*

Additional toxicological information:

Aspiration hazard: no specific effects or hazards known.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

*LC50: > 100 mg/l (96h, *Oncorhynchus mykiss*; OECD 203)*

Daphnia toxicity:

*LC50: > 100 mg/l (48h, *Daphnia magna*; OECD 202)*

Bacteria toxicity:

EC50: 3800 mg/l (16h)

Algae toxicity:

*ErC50: 1466 mg/l (96h, *Pseudokirchneriella subcapitata*; OECD 201)*

12.2. Persistency and Degradability

Readily biodegradable (91.5 %, 28d; OECD 301A)

12.3. Bioaccumulation

Bioconcentration factor (BCF): < 100. No bioaccumulation.

12.4. Mobility

Highly mobile in soil.

Partition coefficient soil/water (Koc): 1 - 1.9 (estimated)

12.5. Results of PBT- und vPvP Assessment

This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12.6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Do not let run into surface waters, waste water or soil.

Behaviour in sewage systems:

Further ecological effects:

The product does not contain any substances which can deplete

next page.

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 9

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

the ozone layer, according to Regulation (EC) 1005/2009

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Must be disposed as hazardous waste. Do not allow product to reach sewage system.

Dispose of product residues according to the waste disposal guidelines 2008/98/EC as well as according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1993

14.2. UN Proper Shipping Name

ADR/RID: ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (1-Propoxypropan-2-ol)

IMDG/IATA: FLAMMABLE LIQUID, N.O.S. (1-Propoxy-2-propanol)

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-E

IATA Class: 3

Hazard no.: 3

14.4. Packaging Group

ADR/RID: III

IMDG: III

IATA: III

14.5. Environmental Hazards

None

14.6. Special Precautions for User

none known

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70925 Dowanol PnP

Page 10

Revised edition: 26.03.2020

Version: 10

Printed: 28.02.2022

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (German Regulation)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU): P5c and E2

Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 3, 40.

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

15.3. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.