



Trade name: Paraformaldehyd/Polyoxymethylen

Substance number: 066944

Version: 1 / CH

Date revised: 05.04.12

Replaces Version: - / CH

Date of printing: 05.04.12

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Paraformaldehyd/Polyoxymethylen

Item-No. 06694400

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

Use of the substance/preparation

Manufacture of pharmaceutical products, Chemical

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Sol. 2	H228
Acute Tox. 4	H332
Acute Tox. 4	H302
Carc. 2	H351.1
STOT SE 3	H335
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317

Classification in accordance with EC directives

Classification	Carc.Cat.3, R40
	Xn, R20/22
	Xi, R36/37/38
	R43

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Warning



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Hazard statements

H228	Flammable solid.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H351.1	Suspected of causing cancer.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

Precautionary statements

P281	Use personal protective equipment as required.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

Harmful

R phrases

20/22	Harmful by inhalation and if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
40	Limited evidence of a carcinogenic effect.
43	May cause sensitization by skin contact.

S phrases

22	Do not breathe dust.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37	Wear suitable protective clothing and gloves.

Hazardous component(s) to be indicated on label

contains Paraformaldehyd

3. Composition/information on ingredients**Hazardous ingredients****Paraformaldehyd**

CAS No.	30525-89-4			
EINECS no.	200-001-8			
Concentration		>=	50	%
Classification	Xn, R20/22 Xi, R36/37/38 Carc.Cat.3, R40 R43			

Classification (Regulation (EC) No. 1272/2008)

H228



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H302
H332
H351.1
H335
H315
H319
H317

4. First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. Summon a doctor immediately. Irregular breathing/no breathing: artificial respiration. If necessary, give oxygen. Seek medical advice immediately.

After skin contact

Wash skin thoroughly with water (15 min.). Remove contaminated, soaked clothing immediately and dispose of safely. Seek medical advice immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

Drink water in small gulps. Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

Allergic symptoms, Coughing, Shortness of breath, Nausea, Vomiting

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide, Foam, Dry powder

5.2. Special hazards arising from the substance or mixture

The product is combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Formaldehyde vapours

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Do not inhale dust. Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up



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Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

6.4. Reference to other sections

Information regarding personal protective measures see, chapter 8. Information regarding Waste Disposal, see chapter 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work only in fume cupboards. Avoid contact with skin, eyes and clothing. Observe safety references and application instructions mentioned on can.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value - 15 °C

Requirements for storage rooms and vessels

Do not use metal containers.

VCI storage category

VCI storage category 4.1B Flammable solids

Further information on storage conditions

Container should not be closed air-tight. Protect from heat. Keep away from sources of ignition.

8. Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Preventative skin protection. Wash hands and face after work.

Respiratory protection

necessary; Breathing apparatus in the event of aerosol. Short term: filter apparatus, combination filter B-P2

Hand protection

Gloves
Appropriate Material nitrile rubber - NBR
Material thickness 0.11 mm
Penetrating time > 480 min

Eye protection

Safety glasses

Body protection

necessary

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form solid
Colour white
Odour slight, original odour
pH
Value appr. 5.5



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Temperature 20 °C
Remarks Saturated solution

Melting point

Value 100 to 130 °C

Boiling point

Remarks No data available

Flash point

Remarks No data available

Flammability

Flammable.

Explosion limits

Lower explosion limit 7 %(V)

Upper explosion limit 73 %(V)

Vapour pressure

Value 1.93 hPa

Temperature 25 °C

Density

Value 1.4 g/cm³

Temperature 20 °C

Solubility in water

Value 20 g/cm³

Remarks slightly soluble

Ignition temperature

Value 300 °C

9.2. Other information**Other information**

The product is capable of dust explosions.

10. Stability and reactivity**10.1. Reactivity**

Danger of dust explosion

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Risk of ignition or formation of inflammable gases or vapours with: Development of toxic gases/vapours. Alkalies, amines, Acids, Strong oxidising agents, Incompatible with: Salts of metals (iron), Corrodes copper and brass. Zinc

10.6. Hazardous decomposition products

Formaldehyde

11. Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Species rat
LD50 592 mg/kg



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Acute dermal toxicity

Species	rabbit	
LDLo	10000	mg/kg

Acute inhalational toxicity

Species	rat	
LC50	1.07	mg/l
Duration of exposure	4	h
Remarks	In the Time saturated test after 10 min. exposure all animals died (Edema of the lungs).	

Skin corrosion/irritation

Remarks	Irritating to skin.
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Serious eye damage/irritation

Species	rabbit
valuation	strongly irritant
method	OECD 405
Remarks	Irritates the eyes.

Sensitization

Species	Human
valuation	sensitizing
Remarks	May cause allergic skin reactions.

Mutagenicity

Remarks	positive
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Carcinogenicity

Remarks	May cause cancer.
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Experience in practice

After resorption of toxic quantities: collapse. After Swallowing: nausea. vomiting. Irritates the mucous membrane. After Swallowing: irritations in mouth, throat, oesophagus and gastrointetinal tract. The substance is absorbed through the mucous membranes. inhalation. Irritates the mucous membrane.

Other information

Observe the usual precautions for handling chemicals.

12. Ecological information**12.1. Toxicity****Fish toxicity**

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	42	mg/l
Duration of exposure	24	h

12.2. Persistence and degradability**Biodegradability**

Remarks	No data available.
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12.6. Other adverse effects**General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system.

13. Disposal considerations**13.1. Waste treatment methods**



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Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

14. Transport information**Land transport ADR/RID****14.1. UN number**

UN 2213

14.2. UN proper shipping name

PARAFORMALDEHYDE

14.3. Transport hazard class(es)

Class 4.1

Label 4.1

14.4. Packing group

Packing group III

Marine transport IMDG/GGVSee**14.1. UN number**

UN 2213

14.2. UN proper shipping name

PARAFORMALDEHYDE

14.3. Transport hazard class(es)

Class 4.1

14.4. Packing group

Packing group III

14.5. Environmental hazards

no

Air transport ICAO/IATA**14.1. UN number**

UN 2213

14.2. UN proper shipping name

PARAFORMALDEHYDE

14.3. Transport hazard class(es)

Class 4.1

14.4. Packing group

Packing group III

15. Regulatory information**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

16. Other information**R-phrases listed in chapter 3**

20/22	Harmful by inhalation and if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
40	Limited evidence of a carcinogenic effect.
43	May cause sensitization by skin contact.

Hazard statements listed in chapter 3

H228	Flammable solid.
H302	Harmful if swallowed.



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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351.1	Suspected of causing cancer.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.