

Trade name: Paraformaldehyd/Polyoxymethylen

Substance number: 066944

Version: 3 / CH

Date revised: 21.06.2023

Replaces Version: 2 / CH

Print date: 21.06.23

SECTION 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, analytics

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 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

SECTION 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	H302
Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
Carc. 1A	H350
STOT SE 3	H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***



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H228	Flammable solid.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H335	May cause respiratory irritation.

Precautionary statements ***

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** Paraformaldehyd

Supplemental information**Further supplemental information *****

Restricted to professional users

Other information ***

Not for supply to the general public in Switzerland

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******Paraformaldehyd**

CAS No.	30525-89-4		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Sol. 2	H228	
	Acute Tox. 4	H302	
	Acute Tox. 4	H332	
	Skin Irrit. 2	H315	
	Eye Dam. 1	H318	
	Skin Sens. 1	H317	
	Muta. 2	H341	
	Carc. 1A	H350	
	STOT SE 3	H335	Respiratory tract; Route of exposure: inhalative
ATE	oral	800	mg/kg

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cATpE inhalative, Dust/Mist 1.5 mg/l

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In any case show the physician the Safety Data Sheet.

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

SECTION 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.

SECTION 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 empty into drains.

6.3. Methods and material for containment and cleaning up

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 Section 8. Information regarding waste disposal, see Section 13.

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SECTION 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.

Storage classes

Storage class according to TRGS 510 4.1B Flammable hazardous solids
Storage category (Switzerland) 4.1 Flammable solids

Further information on storage conditions

Do not keep the container sealed. Protect from heat. Keep away from sources of ignition.

SECTION 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. Particle filter P3

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material nitrile rubber - NBR
Material thickness 0.11 mm
Breakthrough time 480 min
Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses; Eye protection must comply with EN 166.

Body protection

Fire-resistant antistatic protective clothing

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state solid

Colour white

Melting point

Value 100 to 130 °C

Boiling point or initial boiling point and boiling range

Remarks No data available

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Flammability

Flammable.

Upper and lower explosive limits

Lower explosion limit 7 %(V)

Upper explosion limit 73 %(V)

Flash point

Value 70 °C

Method closed cup

Source GESTIS-Stoffdatenbank

Ignition temperature

Value 300 °C

pH value

Value appr. 5.5

Temperature 20 °C

Remarks Saturated solution

Vapour pressure ***

Value 2 hPa

Temperature 25 °C

Source GESTIS-Stoffdatenbank

Density and/or relative densityValue 1.49 g/cm³

Temperature -5 °C

9.2. Other information**Solubility in water *****

Remarks No data available

Other information

Forms explosive mixture with air are possible.

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

Danger of dust explosion

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Violent reactions with air and oxidising agents. Alkalies, amines, Acids, Incompatible with: Salts of metals (iron), Corrodes copper and brass. Zinc

10.6. Hazardous decomposition products

In the event of fire the following can be released: Formaldehyde

SECTION 11: Toxicological information *****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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Acute oral toxicity

ATE	800	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**Paraformaldehyd**

Species	rat	
LD50	800	mg/kg

Acute dermal toxicity (Components)**Paraformaldehyd**

Species	rabbit	
LD50	10000	mg/kg

Acute inhalational toxicity

ATE	1.5	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**Paraformaldehyd**

Species	rat	
LC50	1.07	mg/l
Duration of exposure	4	h
Remarks	Irritating to respiratory system.	
Source	RTECS	

Skin corrosion/irritation (Components)**Paraformaldehyd**

evaluation	irritant
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Serious eye damage/irritation (Components)**Paraformaldehyd**

evaluation	irritant - risk of serious damage to eyes
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Sensitization (Components)**Paraformaldehyd**

Species	Human
evaluation	sensitizing

Mutagenicity (Components)**Paraformaldehyd**

Species	mammal, species unspecified
evaluation	Suspected of causing genetic defects.

Reproduction toxicity (Components)**Paraformaldehyd**

Remarks	No data available
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Carcinogenicity (Components)**Paraformaldehyd**

evaluation	Suspected of causing cancer.
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Specific Target Organ Toxicity (STOT) (Components)**Paraformaldehyd**

Single exposure	
evaluation	May cause respiratory irritation. Organs: Respiratory tract

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11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

Experience in practice

After resorption of toxic quantities: collapse. Liver damage is possible.

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****Paraformaldehyd**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)			
LC50	46	to	78	mg/l
Duration of exposure	96	h		

Daphnia toxicity (Components)**Paraformaldehyd**

Species	Daphnia magna			
EC50	42			mg/l
Duration of exposure	24	h		

12.2. Persistence and degradability**Biodegradability**

Remarks No data available.

12.3. Bioaccumulative potential**General information**

No data available

12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment *****

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

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

General information / ecology

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

SECTION 13: Disposal considerations

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13.1. Waste treatment methods**Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	E		
14.1. UN number	2213	2213	2213
14.2. UN proper shipping name	PARAFORMALDEHYDE	PARAFORMALDEHYDE	PARAFORMALDEHYDE
14.3. Transport hazard class(es)	4.1	4.1	4.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany) *****

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

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

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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H341 Suspected of causing genetic defects.
H350 May cause cancer.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Carc. 1A	Carcinogenicity, Category 1A
Eye Dam. 1	Serious eye damage, Category 1
Flam. Sol. 2	Flammable solid, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.