SAFETY DATA SHEET

1. I dentification of the substance/prsparation and company/undertaking.

NAME

HOLZ PEN #210

S.D.S. NO. PW-12-1

Synonyms

Water based pigment ink.

Supplined by:

2. Composition/information on ingredients,

Contains:

<u>Chemical name</u>	wt-% Conc	Classification	Exposure	Cas	EINECS
Ethyl Alcohol	2-3		1000	84-17-5	
1,2-Benzisothiazol	0.07-0.1			2634-33-5	
Iso-Propyl Alcohol	0.8-1.1		400	67-63-0	
Acrylic acid Polymer	3-5			9003-01-4	
Pigment White 6	0-20			13463-67-7	
Pigment White 19	4-11			1332-58-7	
Color Pigments	0-11			***************************************	
Water	60-80			7732-18-5	

3. Hazards identification.

Irritate eye.

4. First Aid measure.

Exposure Route

Symptom

Treatment

Inhalation

High concentrations - irritation of

mucous membrance.

Remove from exposure, rest and keep warm. In severe cases, seek medical attention.

Skin Contact

Slight irritation.

Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse.If

irritation persists seek medical attention.

Eye Contact

Irritation

Irrigate thoroughly with water for at least 10 minutes.

Obtain medical attention.

Ingestion

Irritation of gastrointestinal tract.

Wash out mouth with water. Do not induce vomiting.

If patient is conscious, give water to drink. Seek immediate medical attention.

Immediate Treatment / Antidote:

Delayed Effects: Ingestion may result in liver and kidney damage.

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5. Fire fighting measures.

Suitable Extinguisheres

Dry chemical, Foam or water jet.

Unsuitable Extinguisheres

n.a.

Hazardous Combustion Products

CO, CO₂, NO_X, Smoke.

Special Equipment for Fire Fighting

Solf contained breathing apparatus.

6. Accidental Release measures.

Safety Precautions

n.a.

Environmental Precautions

Do not allow material to contaminate sewers.

Clean up Proedure

Absorb in pieces of cloth, vermiculite, or dry sand and clean up with a wet cloth.

7. Handling & Storage,

Handling

Ventilation

None

Recommended procedures & equipment

Avoid skin and eye contact. Close cap after used.

Storage

Temperature range

Cool, below 35°C

Humidity range

Dry

Keep away from

See section 10

Suitable storage Media

Polyethylene or polypropylene.

Precautions against static discharge

None

8. Exposure Controls/personal protaction.

Exposure Limits

n.d.

Protective Measures

Respiratory:

n.a.

Hand:

n.a.

Eye:

Safty goggles.

Skin:

n.a.

Hygiene Measures

n.a.

9. Physical & Chemical Properties.

Appearance

Color Ink.

Odour

Slightly

Boiling Point/range

100-110°C

Freezing Point/range

-10-0°¢

Flash Point Autoignition temperature n.a. n.a.

Explosive limits

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Vapour Pressure

n.a.

Relative density

n.d.

Solubility in water

1.1-1.3 Miscible

Solubility in solvent

Soluble in alcohol slightly.

10. Stabillity & Reactivity.

Stabillity

Stablle under normal conditions.

Known Hazardous reactions

Reactions with acids forms Hydrogen gas (flammable).

Conditions to avoid

Heat, high temperature and fire sources.

Materials to avoid

Acids, Oxidizing agents.

Hazadous decomposition products

GO, GO₂, NO_X

11. Toxicological Information.

Effects

Low acute oral toxicity, however ingestion may cause systemic effects such as damage liver and kidneys which may become apparent later. High vapour concentrations are irritating to mucous membranes and the respiratory tract. Slight to moderate eye and skin irritant. No reported evidence of carcinogenic, mutagenic or adverse reproductive effects.

12. Ecological Information.

Environmental Effects

Mobility

Soluble in Water.

Degradability

n.d.

Aquatic Toxicity

n.đ.

13. Disposal considerations.

Substance

Via an authorized waste disposal contractor to an approved waste disposal site, observing all

local and national regulations.

Container

As substance. Used containers must not be cut up or punctured untill completely purged of

product residues.

14. Trainsport Information.

UN number

n.a.

Class/Item No.

n.a.

Primary Hazard

n.a.

Emergency Action Code

n.a.

Packing Group H.T. Number n.a. n.a.

15. Regulatory Information,

Supply label details

n.a.

Label Name

n.a,

Symbols Risk Phrases

n.a.

Safety Phrases

n.a.

Close cap after use. Avoid contact with skin and eyes.

E.E.C. No

n.a.

Use of this material may be governed by the following regulations

EN-71

Users are advised to consult these regulations for further information.

The information contained in this data sheet does not constitute an assessment of workplace risks.

16. Other Information.

This material is usually used for:

Marking pen ink.

It must not be used for:

Avoid high temperature.

Legal Disclaimer:

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

Not applicable:

n.a.

Not determined: n.d.

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