



Safety / Data information

En

PCB-pen SK20

Valid from: 2010-10-01
Replaces version no: 2010-03-30
Printed: 2010-10-01
Version: 2010-En

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: PCB-pen: SK20

Art. no. : 110239

Producer: Scankemi elektronik
Hedåsvägen 1
S-187 36 Täby, Sweden

Telephone: +46-(0)8-732 7900, +46-(0)70-566 5775

Telefax: +46-8-(0)732 5007

2. HAZARDS IDENTIFICATION

Most important hazards: Not available
SPECIFIC HAZARDS: Information of components.

[Xylene] [Ethyl benzene]

MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, aspiration hazard, central nervous system depression.

PHYSICAL HAZARDS: Flammable liquid and vapor. Vapor may cause flash fire.

[iso-butanol]

MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, aspiration hazard, central nervous system depression.

PHYSICAL HAZARDS: Flammable liquid and vapor. Vapor may cause flash fire.

3. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT PARTS: Ink. The product is a preparation; Each pen contains ca 2 mL of ink

Chemical or generic name	Cas No	TSCA	EINECS No	Conc (wt %)
Ethylbenzene	100-41-4	Reg	2028494	50-80
Xylene	1330-20-7	Reg	2155357	
Iso-butanol	78-83-1	Reg	2011480	10
Resin	Reg	Reg	Polymer	10-30
Coloring agent	Reg	Reg	Reg	<10



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4. FIRST AID MEASURES

INHALATION:

Remove from exposure area to fresh air. Give artificial respiration if not breathing. Treat symptomatically and supportively. Get medical attention immediately.

SKIN CONTACT:

Wash skin with soap and water while removing contaminated clothing and shoes. Get medical attention, if needed. Clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT:

Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

INGESTION:

Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. Allow vomiting to occur. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

NOTE TO PHYSICIAN:

Ink quantity of product: Full/new ca 2-2.5 g.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS:

Negligible fire hazard. Content ca 2 mL in each pen.

EXTINGUISHING MEDIA:

Water, carbon dioxide or foam extinguishing agents. **Large fires:** Flood with water. Apply water from a protected location or from a safe distance.

FIRE FIGHTING:

Move container from fire area if it can be done without risk. Stay away from the container. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Flood with water. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Evacuate if fire gets out of control. Stay upwind and keep out of low areas.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Not available.
Environmental precautions:	Do not wash away into shower or water way.
Method for cleaning up:	Take or soak up with absorbent.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

HANDLING:

Technical measures:	Don't swallow ink. Recap after use. Keep out of reach for children. Avoid contact with skin and eyes. Use only in well-ventilated areas. Do not breathe the vapor.
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Storage:	Keep away from oxidizing agents, ignition sources and high temperature. Avoid direct sunlight. Keep away from heat sources. Rec. storage temp: 5-30 °C
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Incompatible products: Oxidizing agents, combustible materials, acids, amines, bases.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Local exhaust ventilation system is not required, but can be recommended when a large amount are used.

Control parameters (Information of components)

OSHA: Ethyl benzene 100 ppm (435 mg/m³) TWA
Iso-butanol 100 ppm (300 mg/m³) TWA

ACGIH: Ethyl benzene 100 ppm TWA, 150 ppm STEL



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Iso-butanol 50 ppm TWA STEL

EC: Ethyl benzene 100 ppm TWA, 150 ppm STEL

Personal protective equipment: In general not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Auto ignition temp: N.A. (iso-butanol: 415 °C; Ethyl benzene: 432 °C)

Boiling point: N.A. (iso-butanol: 108 °C; Ethyl benzene: 136 °C)

Color: Black

Density: Ca 0.9 g/ cm³

Evaporation rate: N.A. (ethyl benzene 0.6)

Explosion limits: N.A. (Ethyl benzene: Lower flammable limit: 0.8%; Upper flammable limit: 6.7%)

Flash point N.A. (Ethyl benzene: 21 °C.

Melting point: N.A

Odour Aromatic

pH: N.A.

Physical form: Low viscous liquid

Solubility in water: N.A. (sparingly ca 0.015%)

Volatility: 70-75%

Vapor pressure: N.A. (Ethyl benzene: 7,1 @ 20 °C)

10. STABILITY AND REACTIVITY

STABILITY: The product is stable.

HAZARDOUS REACTIONS: Will not occur.

CONDITIONS TO AVOID: Avoid contact with heat, flames, sparks.

INCOMPATIBILITIES: Avoid oxidizing agents, combustible material, acids, amines, bases

DECOMPOSITION PRODUCTS: Carbon dioxide, water, nitrogen oxide.

11. TOXICOLOGICAL INFORMATION

Toxicity data:

Ingestion LD50: 2119 mg/kg (Mouse) [Xylene]
3500 mg/kg (Rat) [Ethyl benzene]

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2460 mg/kg (Rat) [iso-butanol]
>2000 mg/kg [Colorin agent]
5000 ppm, 4h, (Rat) [Xylene]
>1700 mg/kg (Rabbit) [Xylene]
17800 µL/kg (Rabbit) [Ethyl benzene]
3400 mg/kg (Rabbit) [iso-butanol]
>2000 mg/kg (Rabbit) [Colouring agent]

Chronic and long term toxicity: The liquid [Xylene] defats the skin. The substance may have effects on the central nervous system. .Exposure to the substance may enhance hearing damage caused by exposure to noise. Animal tests show that [Xylene] possibly causes toxicity to human reproduction or development.

Signs and symptoms of overexposure:

	Xylene	Ethyl benzene	Iso-butanol	Resin
Inhalation	Irritation, nausea	Irritation, breathing	Irritation, nausea	Irritation, cough
Skin contact	Irritation	Irritation, absorption	Irritation, redness	Irritation
Eye contact	Irritation, burn	Irritation, tearing	Irritation, redness	Irritation
Ingestion	Irritation, nausea	Irritation, vomiting	Abdominal pain, head ache	
Specific effects	IARC group 3	IARC group 2B		

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: N.A.

13. DISPOSAL CONSIDERATIONS

Waste: Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

HS code: 960820

	Domestic (Land)	International (Water)	International (Air, ICAO)
Hazard class	3	3	3
UN/NA	UN1175	UN1175	UN1175
Packing group	II	II	II
Information valid for Ethyl benzene.			
Remark: Each pen contains ca 1 mL ethyl benzene + 0.2 mL iso-butanol in a closed container.			



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15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA, HCS): Ethylbenzene (Xylene), iso-butanol

EU labeling

12.5% < Xn : R20/21 < 20% < Xn: R20/21-38, R10 [Xylene]

25% < Xn: R20, R11 [Ethyl benzene]

Xi: R37/38-41. R67, R10 [iso-butanol]

Products are manufactured in accordance with European regulation EN71 part 3.

16. OTHER INFORMATION

This information is valid for the above said product, and may not be valid when the product is used together with one or more of other products or materials in an other process or procedure. The information is to the best of our knowledge correct and is given in good faith, but with guarantee. It is to the user to convince himself the information is valid when he is using the product. The product is stored in a closed container, and the content of each container (pen) is ca 2 mL..