

Safety data sheet

MSDS # 5100

According to 91/155/EEC

Ink in Sharpie, Black

Date of revision:

04 January 02

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1. Name of product and firm

Product name Ink in Sharpie, Black

Firm Sanford GmbH
Schnackenburgallee 43-45
D-22525 Hamburg
Tel: 49 40 / 8555-0
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Emergency information Tel: 49 40 / 8555-0

2. Chemical characterization / information on ingredients

Chemical characterization: aqueous dyestuff-solution

Dangerous ingredients	CARN	content / %	symbol	R-phrases
n-Propanol	71-23-8	max. 85	F	R 11
n-Butanol	71-36-3	max. 20	Xn	R 10 - 20
Diacetonealcohol	123-42-2	max. 20	Xi	R 36

3. Possible hazards

Special risks concerning human beings and the environment: Highly flammable, Harmful by inhalation, Irritating to eyes

4. First aid measures

General hints: -

Upon inhalation: Remove to fresh air. Consult physician, if symptoms persist.

Upon skin contact: Wash with soap and water.

Upon eye contact: Flush with water for at least fifteen minutes. Consult a physician.

Upon ingestion: Drink water. Do not induce vomiting. Consult a physician.

5. Fire-fighting measures

Suitable extinguishing media: Water, carbon dioxide, dry chemical

Non-suitable media: -

Special hazards: -

Special protective clothing: Wear self-contained breathing apparatus.

6. Measures in case of spillage

Protective measures, personal: Eliminate all ignition sources. No smoking.

Environmental: -

Proceedings for cleaning/taking up: Soak up with absorbent material.

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7. Handling and storage

Handling: Eliminate all ignition sources. No smoking.
Storage: Keep containers tightly closed in a cool and well-ventilated room.

8. Threshold limits and personal protective equipment

Hints for the arrangement of technical equipment: Keep containers in well-ventilated places. Precautions against electrostatic discharge.

Ingredients with threshold limit values:	CARN	TLV / mg/m ³
n-Butanol	71-36-3	300
Diacetonealcohol	123-42-2	240

Personal protective equipment

General: -
Respiratory protection: In case of vapor or spray
Hand protection: Protective rubber gloves are recommended
Eye protection: Goggles against splashes
Body protection: -

9. Physical and chemical data

Form:	liquid
Color:	black
Odor:	like alcohol
Melting point:	- °C
Boiling point:	97 °C
Flash point:	22 °C
Ignition temperature:	405 °C
Danger of self-ignition:	-
Fire-promoting properties:	-
Explosion hazards:	May form explosive vapor-air mixtures
Lower explosion limit:	1,4 Vol%
Upper explosion limit:	13,5 Vol%
Vapor pressure (20°C):	18,7 hPa
Density (20°C):	0,85 - 0,90 g/ml
Solubility in water (20°C):	partially miscible
pH-value (20°C):	n.a.
Viscosity (25°C):	n.o. mPas

10. Stability and Reactivity

Conditions to avoid: -
Materials to avoid: Strong oxidizers
Dangerous decomposition products: Burning may produce carbon monoxide

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11. Information on toxicity

Acute toxicity
LD50 (rat, oral, calculated): n.o. mg/kg
Primary irritation: skin, mucous membrane, and eye irritation after intensive contact possible
Sensibilisation: n.o.
Subacute/chronic toxicity: n.o.
Experience on human beings: -

12. Information on ecology

Information on elimination: n.o.
Behaviour in the environment: n.o.
Ecotoxic effects: n.o.
Further information: -

13. Information on waste-treatment

Product
Recommendation: In accordance with local regulations
Dirty packaging
Recommendation: In accordance with local regulations
Recommended cleaning agent: Alcohol-based cleaner

14. Information on transport

ADR/RID and GGVS/GGVE	name: alcohols, n.o.s.	class: 3	number/letter: 31	hazard-nr.:	material-nr.:
					1987
ADN/ADNR	name: alcohols, n.o.s.	class: III	number/letter: 31	category: -	
IMDG/GGVSee	name: alcohols, n.o.s.	class: 3	UN-nr.: 1987	PG: II/III	EMS-nr: MFAG: marine pollutant: -
ICAO-TI and IATA/DGR	name: alcohols, n.o.s.	class: 3	UN/ID-nr.: 1987	PG: II/III	

15. Regulations

Labeling according to EEC-directives
Hazard-symbol: F, Xi
Component(s): 4-Hydroxy-4-methylpentan-2-on
n-Butanol
R-phrases: 36 Irritating to eyes
20 Harmful by inhalation
S-phrases: 16 Keep away from sources of ignition - No smoking
24/25 Avoid contact with skin and eyes
National regulations

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16. Further information

n.a. = not applicable

n.o. = not observed

The foregoing information reflects our current knowledge and does not have the purpose of guaranteeing product properties.