

MATERIAL SAFETY DATA SHEET

000363

No.: 3139-H5

Date: 13.08.1985

Section I

Manufacturer's Name:

Staedtler Mars GmbH & Co. KG

Emergency Telephone No.:

0911 / 394 319

Address:

Kirchenweg 10, D-8500 Nürnberg 90

Telex:

0623115 mars d

Trade Name and Synonyms:

 Lumocolor Permanent S 313-Black

Principal use:

For Overhead-Projection

Ink-Contents: 1,3 g

Section II - Hazardous Ingredients

Basic Blue 7

 LD₅₀-unit: 100 mg/kg

%

4

Basic Orange 1

 LD₅₀-unit: 1.000 mg/kg

5

Basic Red 1

 LD₅₀-unit: 400 mg/kg

2

n-Butanol

TWA-unit: 100 ppm

15

Hazardous Mixtures of other Liquids, Solids, or Gases

None

%

Section III - Physical Data

Boiling Point (°C):

Melting Point (°C):

 Specific Gravity (H₂O=1): 0,87 pH:

Evaporation Rate:

(% Volatile by Volume:

Solubility in Water (By Wt.):

Pressurized

partially miscible

 Yes No

If Yes: _____ mmHg

Appearance and Odor

fibre tip pen containing solvent ink, alcoholic odor

Section IV - Fire and Explosion Hazards

Flash Point (°C): 18

(% Lower Explosion Limit:

(% Upper Explosion Limit:

Autoignition Temp. (°C):

Test Method

 Open Cup Closed Cup Cleveland Closed Cup Other:

Extinguishing Media

 Water Dry Chemical Carbon Dioxide Foam Other:

Special Fire Fighting Procedures

 None Other:

Unusual Fire and Explosion Hazards

 None Other:

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Section V - Health Hazard Data

Threshold Limit Value:

see Section II

Effects of Overexposure:

N / A

Emergency and First Aid Procedures:

Section VI - Reactivity Data

Stability

Stable

Conditions to Avoid

Unstable

N / A

Incompatibility (Materials to Avoid - Reactions and/or Toxic Products)

Strong Acids

Oxidizers

Other

Strong Bases

Reducing Agents

N / A

Hazardous Decomposition Products

N / A

Decomposition Temp. (°C):

Hazardous Polymerization

May Occur

Conditions to Avoid

Will Not Occur

N / A

Section VII - Spill Procedures and Waste Disposal/Treatment Methods

Steps to be taken in case Material is released or spilled:

Contain for treatment/disposal

Ventilate Area

Other (Specify):

Cover with absorbent material and collect

Neutralize (Specify):

N / A

In case of Excessive Exposure

Self contained breathing apparatus

Other (Specify):

N / A

Hazardous Waste

Yes

No

Waste ID Number

Waste Disposal Method

None

Secured Chemical Landfill

Incineration

Sanitary Landfill

Sanitary Sewer

Alternate Method (Specify):

Solidification/Chemical fixation

Regulatory Requirements (Specify):

Waste Treatment Method

None

Neutralization

Alternate Method (Specify):

Recycling/Reuse

Bio Treatment

Detonation

Section VIII - Special Protection Information

Mechanical Ventilation

- None
 - Increased Room
 - Local Exhaust
- Comments: N / A

Approved Respiratory Protection, if required:

- None
- Self Contained
- Full Face
- Other
- Organic Vapor
- Acid Gas
- Alkaline Gas
- Dust Cartridge
- Mist Cartridge
- High Efficiency Dust
- Cartridge Number
- Comment

Routine Personal Protection

Protective Gloves

- None
- Polyethylene
- Latex/Neoprene
- Viton
- Cotton
- PVC
- Buna-N
- Vinyl
- Acrylonitrile
- Natural Rubber
- Latex
- PVA
- One-time use only
- Other
- Comments

Eye/Face Protection

- Safety Glasses
 - Safety Glasses with Side Shields
 - Goggles
 - Face Shield
 - Other:
 - Comments
- N / A

Protective Clothing

- None
- Apron
- Coverall
- Disposable Clothing
- Comments

Section IX - Special Precautions

Precautions to be taken in Handling and Storing:

Keep closed when not in use.

Other Precautions:

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. These products should be stored, handled and used in conformity with the application they are intended. The information provided above is for general guidance only without responsibility on our part and is subject to change without notice.