Safety data sheet
according to 1907/2006/EC, Article 31

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1 Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: **PF6102 yellow,6120 orange,6141 dark pink,6150 6152 blue,6151 light blue,6170 6171 violet,6172 lilac**

Registration number
The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)

Relevant identified uses of the substance or mixture and uses advised against
Currently no such applications are identified

Application of the substance / the preparation pigmented highlighter ink

Details of the supplier of the safety data sheet
Manufacturer/Supplier:
School Specialty
W6316 Design Drive Greenville, WI 54942
Ph#1-888-388-3224
Fax#1-888-388-6344
Email: orders@schoolspecialty.com
Website: www.schoolspecialty.com

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2 Hazards identification

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to EU guidelines:
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

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3 Composition/information on ingredients

Chemical characterization: Mixtures
Mixture of the following substances, containing non-hazardous substances and colouring agents.
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 107-21-1 EINECS: 203-473-3	ethanediol	Xn R22 Acute Tox. 4, H302	10-25%

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

Description of first aid measures
General information: No special measures required.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Generally the product does not irritate the skin.
After eye contact: Rinse opened eye for several minutes under running water.
After swallowing: If symptoms persist consult doctor.
Information for doctor:
Most important symptoms and effects, both acute and delayed
No further relevant information available.

(Contd. on page 2)

Trade name: PF6102 yellow,6120 orange,6141 dark pink,6150 6152 blue,6151 light blue,6170 6171 violet,6172 lilac

(Contd. of page 1)

? Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Firefighting measures

? Extinguishing media
? Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
? Special hazards arising from the substance or mixture No further relevant information available.
? Advice for firefighters
? Protective equipment: No special measures required.

6 Accidental release measures

? Personal precautions, protective equipment and emergency procedures Wear protective clothing.
? Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
? Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
? Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

? Handling:
? Precautions for safe handling
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
? Information about fire - and explosion protection: No special measures required.

? Conditions for safe storage, including any incompatibilities
? Storage:
? Requirements to be met by storerooms and receptacles: No special requirements.
? Information about storage in one common storage facility: Not required.
? Further information about storage conditions: None.
? Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

? Additional information about design of technical facilities: No further data; see item 7.

? Control parameters

? Ingredients with limit values that require monitoring at the workplace:	
107-21-1 ethanediol (10-25%)	
IOELV	Short-term value: 104 mg/m? 40 ppm Long-term value: 52 mg/m? 20 ppm Skin

? Additional information: The lists valid during the making were used as basis.

? Exposure controls
? Personal protective equipment:
? General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
? Respiratory protection: Not required.
? Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
? Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 3)

Trade name: PF6102 yellow,6120 orange,6141 dark pink,6150 6152 blue,6151 light blue,6170 6171 violet,6172 lilac

(Contd. of page 2)

? Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
? Eye protection: Goggles recommended during refilling

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9 Physical and chemical properties

? Information on basic physical and chemical properties	
? General Information	
? Appearance:	
Form:	Fluid
Colour:	According to product specification
? Odour:	Product specific
? Odour threshold:	Not determined.
? Important information on protection of health and environment, and on safety.	- -
? pH-value at 20癈:	> 5
? Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100癈
? Flash point:	> 60癈
? Flammability (solid, gaseous):	Not applicable.
? Ignition temperature:	410癈
? Decomposition temperature:	Not determined.
? Self-igniting:	Product is not selfigniting.
? Danger of explosion:	Product does not present an explosion hazard.
? Explosion limits:	
Lower:	3,2 Vol %
Upper:	53,0 Vol %
? Vapour pressure at 20癈:	23 hPa
? Density at 20癈:	1,05 g/cm
? Relative density	Not determined.
? Vapour density	Not determined.
? Evaporation rate	Not determined.
? Solubility in / Miscibility with water:	Fully miscible.
? Segregation coefficient (n-octanol/water):	Not determined.
? Viscosity:	
Dynamic at 20癈:	6 mPas
Kinematic at 20癈:	5 s (DIN 53211/4)
? Solvent content:	
Organic solvents:	0,0 %
Water:	28,3 %
? Other information	No further relevant information available.

10 Stability and reactivity

? Reactivity
? Chemical stability
? Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
? Possibility of hazardous reactions No dangerous reactions known.
? Conditions to avoid No further relevant information available.
? Incompatible materials: No further relevant information available.
? Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 4)

Trade name: PF6102 yellow,6120 orange,6141 dark pink,6150 6152 blue,6151 light blue,6170 6171 violet,6172 lilac

(Contd. of page 3)

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11 Toxicological information

? Information on toxicological effects
? Acute toxicity:

? LD/LC50 values relevant for classification:		
81-88-9 C. I. Basic Violet 10		
Oral	LD50	>2,000 mg/kg (rat)

? Primary irritant effect:
? on the skin: No irritant effect.
? on the eye: No irritating effect.
? Sensitization: No sensitizing effects known.
? Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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12 Ecological information

? Toxicity
? Acquatic toxicity: No further relevant information available.
? Persistence and degradability No further relevant information available.
? Behaviour in environmental systems:
? Bioaccumulative potential No further relevant information available.
? Mobility in soil No further relevant information available.
? Additional ecological information:
? General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
? Results of PBT and vPvB assessment
? PBT: Not applicable.
? vPvB: Not applicable.
? Other adverse effects No further relevant information available.

13 Disposal considerations

? Waste treatment methods
? Recommendation Smaller quantities can be disposed of with household waste.

? Uncleaned packaging:
? Recommendation: Disposal must be made according to official regulations.
? Recommended cleansing agents: Water, if necessary together with cleansing agents.

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14 Transport information

? Land transport ADR/RID (cross-border)
? ADR/RID class: -

? Maritime transport IMDG:
? IMDG Class: -
? Marine pollutant: No

? Air transport ICAO-TI and IATA-DGR:
? ICAO/IATA Class: -
? Packaging group: -

? Special precautions for user Not applicable.
? Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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15 Regulatory information

? Safety, health and environmental regulations/legislation specific for the substance or mixture

? National regulations:

? Technical instructions (air):

Class	Share in %
NK	10-25

? Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

(Contd. on page 5)

Trade name: PF6102 yellow,6120 orange,6141 dark pink,6150 6152 blue,6151 light blue,6170 6171 violet,6172 lilac

(Contd. of page 4)

? Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

? Relevant phrases
H302 Harmful if swallowed.
R22 Harmful if swallowed.
? * Data compared to the previous version altered.