

**Material Safety Data Sheet**

Date: 8/24/2017

**1. Identification of substance****Product details****Trade name:** Water Based Ink**Article number:** Not available.**Application of the substance/the preparation:** To write**Manufacturer/Supplier:**

Momenta, Inc.

601 Islington Street, Suite 104

Portsmouth, NH, USA

Tel: 800-448-6656

Fax: 603-942-8919

**Information department:** Momenta, Inc.

601 Islington Street, Suite 104

Portsmouth, NH, USA

Tel: 800-448-6656

info@momenta.com

**2. Composition/Data on components****Chemical characterization****Description:** Mixture: consisting of the follow components

<b>Ingredient Name</b>	<b>CAS Number</b>	<b>Proportion</b>
Dye	8008-92-0	10%
	2611-82-7	
	1934-21-0	
Water	7732-18-5	79.9%
Glycerol	56-89-5	10%
Emulsifier	9016-45-9	0.1%

None of the ingredients in this product are considered to be hazardous by ASTM-D4236 and EN71-3.

**3. Hazards identification****Hazard description:** Not applicable**Information pertaining to particular dangers for man and environment:**

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification system:**

The Classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

**NFPA ratings(scale 0-4)**

Health=0

Fire=1

Reactivity=0

**HMIS-ratings(scale 0-4)**

Health=0

Fire=1

Reactivity=0

**4.First aid measures**

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:**

Rinse out mouth with water.

If symptoms persist consult doctor.

**5.Fire fighting measures**

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**6.Accidental release measures**

**Person-related safety precautions:**

Ensure adequate ventilation.

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**7.Handling and storage**

**Handling:**

**Information for safe handling:**

Keep receptacles tightly sealed.  
Prevent formation of aerosols.  
Ensure good ventilation/exhaustion at the workplace.

**Information about protection against explosions and fires:**

Keep respiratory protective device available.  
Normal measures for preventive fire protection.

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
Store only in the original receptacle.

**Information about storage in one common storage facility:**

Store away from foodstuffs.  
Store away from flammable substances.

**Further information about storage conditions:**

Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

## 8.Exposure controls and personal protection

**Additional information about design of technical systems:** No further data; see item 7.

Components with limit values that require monitoring at the workplace:	
<b>56-81-5 glycerol</b>	
PEL(USA)	15*5**mg/m <sup>3</sup> *total dust ** respirable fraction
TLV(USA)	10*ppm *Mist
WEL(Great Britain)	10mg/ m <sup>3</sup>

**Additional information:** The lists that were valid during the creation were as basis.

**Based on the composition shown in section 2, the following measures are suggested for occupational safety measure**

### Personal protective equipment

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed

**Breathing equipment:** Suitable respiratory protective device recommended.

**Protection of hands:**

Protective gloves

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.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

## 9. Physical and chemical properties

General Information	
<b>Form:</b>	Liquid
<b>Oder:</b>	Odorless
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not available
<b>Boiling point/Boiling range:</b>	Not available
<b>Flash point:</b>	Not available
<b>Flammability(solid, gaseous):</b>	Not applicable
<b>Ignition temperature:</b>	Not available
<b>Auto igniting:</b>	Product is not selfigniting
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not available
<b>Upper:</b>	Not available
<b>Oxidizing properties:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Density:</b>	Not available
<b>Relative density</b>	Not available
<b>Vapour density</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not available
<b>pH-value:</b>	Not available
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not available
<b>Additional information:</b>	Not available

## 10. Stability and reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used

according to specifications.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of decomposition:** No dangerous decomposition products known.

## 11. Toxicological information

### Acute toxicity

LD/LC50 values that are relevant for classification:		
56-81-5 glycerol		
Oral	LD50	4090 mg/kg(mouse) 12600 mg/kg(rat) 27000 mg/kg(rabbit)

### Primary irritant effect

**on the skin:** Irritating effect possible.

**on the eye:** Irritating effect possible.

**Sensitization:** Sensitization possible.

### Additional toxicological information

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12. Ecological information

### Additional ecological information:

#### General notes:

Water hazard class 1 (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.

## 13. Disposal considerations

### Product

**Recommendation:** Smaller quantities can be disposed of with household waste.

### Uncleaned packagings

**Recommendation:** Disposal must be made according to official regulations.

## 14. Transport information

Dot regulations	
<b>Hazard class:</b>	-
<b>Identification number:</b>	-

<b>Packing group:</b>	-
<b>Hazardous substance:</b>	-
<b>Poison inhalation hazard:</b>	-
<b>Proper shipping name (technical name):</b>	-
<b>Label:</b>	-
<b>Land transport ADR/RID (cross-border)</b>	
<b>ADR/RID class:</b>	-
<b>Danger code (Kemler):</b>	-
<b>UN-Number:</b>	-
<b>Packaging group:</b>	-
<b>Label:</b>	-
<b>Description of goods:</b>	-
<b>Maritime transport IMDG</b>	
<b>IMDG Class:</b>	-
<b>UN Number:</b>	-
<b>Label:</b>	-
<b>Packaging group:</b>	-
<b>EMS Number:</b>	-
<b>Marine pollutant:</b>	<b>No</b>
<b>Proper shipping name:</b>	-
<b>Air transport ICAO-TI and IATA-DGR:</b>	
<b>ICAO/IATA Class:</b>	-
<b>UN/ID Number:</b>	-
<b>Label:</b>	-
<b>Packaging group:</b>	-
<b>Proper shipping name:</b>	-

## 15.Regulations

### Sara

#### Section 355(extremely hazardous substances):

None of the ingredient is listed.

#### Section 313(Specific toxic chemical listings):

None of the ingredient is listed.

#### TSCA(Toxic Substances Control Act):

All ingredients are listed.

#### Proposition 65

##### Chemicals known to cause cancer:

None of the ingredient is listed.

##### Chemicals known to cause reproductive toxicity for females:

None of the ingredient is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredient is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredient is listed.

Carcinogenicity categories

**EPA(Environmental Protection Agency):**

None of the ingredient is listed.

**IARC(International Agency for Research on Cancer):**

None of the ingredient is listed.

**NTP(National Toxicology Program):**

None of the ingredient is listed.

**TLV(Threshold Limit Value established by ACGIH:**

None of the ingredient is listed.

**NIOSH-Ca(National Institute for Occupational Safety and Health):**

None of the ingredient is listed.

**OSHA-Ca(Occupational Safety & Health Administration):**

None of the ingredient is listed.

**Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

This material (or substance or mixture) is not considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)

**National regulations****Water hazard class:** Water hazard class 1(Self-assessment): slightly hazardous for water.

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