# digital dezign inc.

# **Safety Data Sheet**

Issuing Date 04-Jun-2015 Revision date 04-Jun-2015 Revision Number 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name 4500BL

Other means of identification

Product Code(s) 4500BL

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use ink.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer:
Digital Design Inc.
67 Sand Park Rd.

Cedar Grove NJ 07009 PH: (973) 857-9500

Emergency telephone number Chemtel 1-800-255-3924 (Domestic)

01-813-248-0585 (International)

## 2. Hazards Identification

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 1
Reproductive Toxicity	Category 1B

## **Label Elements**

#### **EMERGENCY OVERVIEW**

## DANGER

#### Hazard statements

Causes serious eye damage May damage fertility or the unborn child



Appearance blue Physical state liquid Odor Acrylic

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC) OTHER INFORMATION

Causes mild skin irritation

Unknown acute toxicity

3.19375% of the mixture consists of ingredient(s) of unknown toxicity

## 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Blue Dye	Proprietary	1 - 5	*
Lactam	Proprietary	1 - 5	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### NOTE

Remaining components are either not hazardous or below threshold limits.

## 4. First aid measures

#### **FIRST AID MEASURES**

General advice In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). Immediate medical attention is not required. If symptoms persist, call a

physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye

wide open while rinsing.

**IF ON SKIN** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

**Inhalation** If symptoms persist, call a physician. Remove to fresh air. Move to fresh air in case of

accidental inhalation of vapors.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required.

Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Consult a physician.

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** 

**Effects** 

Hives.

4500BL

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. May cause sensitization of susceptible persons. Use of epinephrine

may be indicated.

## 5. Fire-fighting measures

## Suitable extinguishing media

Use Carbon dioxide (CO2) Dry chemical Alcohol resistant foam

Unsuitable extinguishing media None.

## Specific hazards arising from the chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

#### **Explosion data**

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Avoid contact with skin and eyes. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive

concentrations. Vapors can accumulate in low areas.

## Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up After cleaning, flush away traces with water. Soak up with inert absorbent material. Pick up

and transfer to properly labeled containers. Prevent product from entering drains. Dam up.

## 7. Handling and Storage

#### Precautions for safe handling

**Handling**Use personal protective equipment as required. Ensure adequate ventilation. Use with local

exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

## Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed. Keep containers tightly

closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible Products Strong oxidizing agents.

## 8. Exposure Controls/Personal Protection

#### Control parameters

**Exposure guidelines** 

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Blue Dye	TWA: 1 mg/m³	-	IDLH: 100 mg/m <sup>3</sup>
	-		TWA: 1 mg/m³

NIOSH IDLH: Immediately Dangerous to Life or Health

## **Appropriate engineering controls**

Engineering Measures Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

## Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield.

**Skin and body protection** For operations where prolonged or repeated skin contact may occur, impervious gloves

should be worn.

**Respiratory protection** None under normal use conditions.

Hygiene Measures Wash contaminated clothing before reuse. When using do not eat or drink. Regular

cleaning of equipment, work area and clothing is recommended.

## 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state liquid

Appearance blue Odor Acrylic

color No information available Odor Threshold No information available

Property Values Remarks/ • Method

**pH** 8.5 - 10

Melting point / freezing point

Boiling point/range (°C) VALUE > 90 °C

Flash Point > 100 °C Seta closed cup

Evaporation Rate No information available flammability (solid, gas) No information available

Flammability Limit in Air

Upper Flammability Limit
Lower Flammability Limit
Vapor Pressure
Vapor Density

No information available
No information available
No information available

Specific gravity 1.0 - 1.1 None known

Water solubility Practically insoluble (~0.4 ug/mL)

Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available

Autoignition temperature >200 °C

Decomposition temperature
Kinematic viscosity
No information available

## OTHER INFORMATION

Softening point
Molecular weight
VOC Content
Density
No information available

## 10. Stability and Reactivity

#### Reactivity

No data available

#### **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight.

Incompatible materials
Strong oxidizing agents.

**Hazardous decomposition products** 

Carbon oxides.

## 11. Toxicological Information

## Information on likely routes of exposure

Product Information The product has not been tested

**Inhalation** May cause irritation of respiratory tract. Avoid breathing vapors or mists.

**Eye contact** Irritating to eyes. Avoid contact with eyes.

**IF ON SKIN** May cause irritation. Avoid contact with skin.

**Ingestion** May be harmful if swallowed. Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	= 3598 mg/kg (Rat)	= 8 g/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h

#### Information on toxicological effects

Symptoms No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irritation Risk of serious damage to eyes. Irritating to eyes.

irritation Irritating to eyes. May cause irritation to the skin and respiratory system.

Sensitization No information available.

Mutagenic effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP: (National Toxicity Program) Known - Known Carcinogen

**Reproductive toxicity** May impair fertility. Possible risk of impaired fertility. May cause harm to the unborn child.

Possible risk of harm to the unborn child.

**STOT - single exposure**STOT - repeated exposure
No information available.
No information available.

Chronic toxicity No information available. Repeated contact may cause allergic reactions in very susceptible

persons. Avoid repeated exposure.

Target organ effects Respiratory System, EYES, skin, Gastrointestinal tract (GI), kidney, liver.

Aspiration hazard No information available.

## Numerical measures of toxicity - Product Information

Unknown acute toxicity 3.19375% of the mixture consists of ingredient(s) of unknown toxicity

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The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 64273 mg/kg
ATEmix (dermal) 109029 mg/kg
ATEmix (inhalation-dust/mist) 155 mg/l

# 12. Ecological Information

#### ecotoxicity

8.39447045% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Lactam	500: 72 h Desmodesmus	832: 96 h Lepomis macrochirus	4897: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50	mg/L LC50 static 4000: 96 h	EC50
	-	Leuciscus idus mg/L LC50 static	
		1072: 96 h Pimephales promelas	
		mg/L LC50 static 1400: 96 h	
		Poecilia reticulata mg/L LC50	
		static	

## Persistence and degradability

No information available.

### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Lactam	-0.46

Other adverse effects No information available

## 13. Disposal Considerations

Waste treatment methods

Waste treatment methods Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Blue Dye	Toxic

# 14. Transport Information

DOTNot regulatedTDGNot regulatedMEXNot regulatedICAONot regulatedIATANot regulatedIMDG/IMONot regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

## 15. Regulatory Information

### **International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Blue Dye	Х	X	X	Х	Х	-	Х	Х
Lactam	Х	Х	Х	Х	Х	Х	Х	Х

## Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **U.S. Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %		
Blue Dye -	1.0		
Lactam -	1.0		

### SARA 311/312 Hazard Categories

Acute health hazard Category 1
Chronic Health Hazard Category 1
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

## **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Blue Dye	-	X	-	-

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

#### U.S. State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name	California Prop. 65	
Lactam -	Developmental	

### U.S. State Right-to-Know Regulations

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Chemical name	New Jersey	Massachusetts	Pennsylvania
Blue Dye	X	•	Х
Lactam	Х	Х	Х

## U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. Other Information				
NFPA	Health hazard 1	flammability 1	Instability 0	Physical and chemical
HMIS	Health hazard 1	flammability 1	Physical hazards 0	properties - Personal precautions X

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Revision note

No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**