# digital devign inc.

# **Safety Data Sheet**

Category 1B

Issuing Date 26-Jun-2015

Revision date 26-Jun-2015

Revision Number 1

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

<u>Product identifier</u> Product name	4500YW
<u>Other means of identification</u> Product Code(s) Synonyms	4500YW No information available
Recommended use of the chemica	al and restrictions on use
Recommended Use	ink.
Uses advised against	No information available
Details of the supplier of the safet	<u>y data sheet</u>
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)

Reproductive Toxicity

#### Label Elements

**EMERGENCY OVERVIEW** 

DANGER		
<b>Hazard statements</b> May damage fertility or the unborn ch	ild	
Appearance yellow	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

### 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

Unknown acute toxicity

8.40875% of the mixture consists of ingredient(s) of unknown toxicity

# 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Lactam	Proprietary	0.1 - <1	*
Ethanol	64-17-5	0.01 - <0.1	*

\*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).
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
IF ON SKIN	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Inhalation	None under normal use conditions. Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to ar unconscious person. Call a physician or poison control center immediately.
Most important symptoms and eff	ects, both acute and delayed
Most Important Symptoms and Effects	Hives.
Indication of any immediate medic	al attention and special treatment needed
Notes to Physician	Treat symptomatically.

# 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.

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

<u>Protective equipment and precautions for firefighters</u> Wear self-contained breathing apparatus and protective suit.

	6. Accidental release measures	
Personal precautions, protective	equipment and emergency procedures	
Personal precautions	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	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 contain	ment and cleaning up	
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	After cleaning, flush away traces with water.	
	7. Handling and Storage	
Precautions for safe handling		
Handling	Use personal protective equipment as required. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.	
Conditions for safe storage, inclu	ding any incompatibilities	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible Products	Strong oxidizing agents.	
	8. Exposure Controls/Personal Protection	
Control parameters		
Exposure guidelines NIOSH IDLH: Immediately Danger	ous to Life or Health	
Appropriate engineering controls		
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.	
Individual protection measures, s	uch as personal protective equipment	
Eye/Face Protection	Tight sealing safety goggles. Wear safety glasses with side shields (or goggles). If splashes are likely to occur:.	
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. Handle in accordance with good industrial hygiene and safety practice.	
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# 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state Appearance color	liquid yellow No information available	Odor Odor Threshold	Acrylic No information available		
Property	<u>Values</u> 8.5 - 10.5	Remarks/ • Method			
pH Molting point / freezing point	0.5 - 10.5				
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	No information available				
Lower Flammability Limit	No information available				
Vapor Pressure	No information available				
Vapor Density	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/wat					
Autoignition temperature	>200 °C				
Decomposition temperature	No information available				
Kinematic viscosity	No information available				
Dynamic viscosity	No information available				
Explosive properties	No information available				
Oxidizing properties	No information available				
OTHER INFORMATION					
Softening point	No information available				
Molecular weight	No information available				
VOC Content	No information available				
Density	No information available				
Bulk density	No information available				
	10. Stability and Reactivity				

Reactivity No data available

Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsNone under normal processing.Hazardous polymerizationHazardous 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	Contact with eyes may cause irritation. Avoid contact with eyes.
IF ON SKIN	May cause irritation. Avoid contact with skin.
Ingestion	Ingestion may cause stomach discomfort. May be harmful if swallowed. Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	= 1350 mg/kg (Rat)	-	-
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 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

irritation Sensitization Mutagenic effects Carcinogenicity	No informatic No informatic The table bel This product the form of a	n available. ow indicates whether each	agency has listed any in classified as a possible c	ngredient as a carcinogen. arcinogen when ingested in
Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	-	Group 1	Known	Х
IARC: (International Ag Group 1 - Carcinogenic to NTP: (National Toxicity Known - Known Carcinos	Program)	er)		
Reproductive toxicity STOT - single exposure	Possible risk	of impaired fertility. May in of harm to the unborn child n available.		harm to the unborn child.

STOT - single exposure STOT - repeated exposure Aspiration hazard

Numerical measures of toxicity - Product Information

Unknown acute toxicity8.40875% of the mixture consists of ingredient(s) of unknown toxicityThe following values are calculatedbased on chapter 3.1 of the GHS documentATEmix (dermal)149883 mg/kg

No information available.

No information available.

## 12. Ecological Information

#### ecotoxicity

9.35947% 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)
Ethanol	-	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia
64-17-5		mykiss mL/L LC50 static 13400 -	magna mg/L LC50 10800: 24 h
		15100: 96 h Pimephales	Daphnia magna mg/L EC50 2: 48
		promelas mg/L LC50 flow-through	h Daphnia magna mg/L EC50
		100: 96 h Pimephales promelas	Static
		mg/L LC50 static	

#### Persistence and degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Mobility No information available.

Chemical name	Log Pow
Ethanol	-0.32
64-17-5	

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	
Ethanol	Toxic; Ignitable	
64-17-5		

# 14. Transport Information

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO	Not regulated
IATA_	Not regulated
IMDG/IMO	Not 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
Lactam	Х	х	Х	Х	Х	-	Х	-
Ethanol 64-17-5	Х	X	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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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#### SARA 311/312 Hazard Categories

Acute health hazard	Category
Chronic Health Hazard	No
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)

#### **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
Ethanol - 64-17-5	Carcinogen
	Developmental

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethanol	Х	Х	Х
64-17-5			

#### 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