digital dezign inc.

Safety Data Sheet

Issuing Date 21-Nov-2014 Revision date 11-Feb-2015 Revision Number 1

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

Product identifier

Product name 4500BK, 4550BK

Other means of identification

Product Code(s) 4500BK, 4550BK 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)

Reproductive Toxicity Category 1B

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

May damage fertility or the unborn child



Appearance black 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

· Causes mild skin irritation

Unknown acute toxicity

3.07525% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Triethanolamine	102-71-6	1 - 5	*
Lactam	Proprietary	0.1 - 3	*
Ethyl alcohol	64-17-5	0.1 - <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

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

where possible). Immediate medical attention is not required.

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 plenty of water for at least 15 minutes. If skin irritation persists,

call a physician. Wash off immediately with soap and plenty of water.

Remove to fresh air. If symptoms persist, call a physician. Inhalation

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

Rinse mouth.

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

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

Effects

Hives.

Indication of any immediate medical attention and special treatment needed

May cause sensitization of susceptible persons. Use of epinephrine may be indicated. Notes to Physician

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 precautionsUse personal protective equipment as required. Avoid contact with skin and eyes.

Environmental precautions

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

surface water or sanitary sewer system. 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.

7. Handling and Storage

Precautions for safe handling

Handling Use personal protective equipment as required. Ensure adequate ventilation.

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.

Incompatible Products Strong oxidizing agents.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelinesThis product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine	TWA: 5 mg/m³	-	-
102-71-6			

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.

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state liquid

Appearance black Odor Acrylic

color No information available Odor Threshold No information available

Property Values Remarks/ • method

pH 8 - 10

Melting point / freezing point

Boiling point / boiling range No information available

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 temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo 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 Contact with eyes may cause irritation. Avoid contact with eyes. May cause irreversible

damage to eyes.

IF ON SKIN May cause sensitization by skin contact. May cause irritation. Avoid contact with skin.

Ingestion MAY BE HARMFUL IF SWALLOWED. May cause gastrointestinal discomfort if consumed

in large amounts. Do NOT taste or swallow.

Information on toxicological effects

Symptoms No information available.

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

irritation May cause irritation of respiratory tract. May cause skin and eye irritation.

Sensitization No information available.

Mutagenic effects No information available.

Carcinogenicity The list below indicates any ingredient listed as a carcinogen:

This product contains Ethanol which is classified as a possible carcinogen when ingested in the form of an alcoholic beverage. This is irrelevant as this product is used for ink jet ink

applications not an alcoholic beverage.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	-	Group 1	Known	X
64-17-5				

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

NTP: (National Toxicity Program) Known - Known Carcinogen

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure.

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

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 3.07525% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 52530 mg/kg
ATEmix (dermal) 109768 mg/kg
ATEmix (inhalation-dust/mist) 155.3 mg/l

12. Ecological Information

ecotoxicity

3.376036% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Triethanolamine 102-71-6	-2.53
Lactam	-0.46
Ethyl alcohol 64-17-5	-0.32

Other adverse effects

13. Disposal Considerations

Waste treatment methods

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

regulations.

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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
Ethyl alcohol	Toxic; Ignitable
64-17-5	-

14. Transport Information

DOT Not regulated

IATA Not regulated

15. Regulatory information

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Triethanolamine	Х	Х	Х	Х	Х	Х	Х	Х

Lactam	Х	Х	Х	Х	Х	Х	Х	Х
Ethyl alcohol 64-17-5	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 %		
Lactam -	1.0		
SARA 311/312 Hazard Categories	VAS		

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Triethanolamine 102-71-6	Х	X	X
Lactam	Х	X	X
Ethyl alcohol 64-17-5	Х	X	X
Magnesium nitrate 10377-60-3	Х	X	X
Copper(II) nitrate, trihydrate (1:2:3) 10031-43-3	Х	-	X

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

properties -

HMIS Health hazard 1 flammability 1 Physical hazards 0 Personal precautions X

Issuing Date21-Nov-2014Revision date11-Feb-2015

Revision note

No information available

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet