# digital dezign inc.

# **Safety Data Sheet**

Issuing Date 21-Jul-2015 Revision date 21-Jul-2015 Revision Number 1

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

Product identifier

Product name 4053BK Black Ink

Other means of identification

Product Code(s) 4053BK UN-No UN1210

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

Company Name

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 2
Flammable Liquids	Category 3

#### **Label Elements**

#### **EMERGENCY OVERVIEW**

#### Danger

#### Hazard statements

Causes serious eye damage Suspected of damaging fertility or the unborn child Flammable liquid and vapor



Appearance black Physical state liquid Odor slight amine

# **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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/ .? /equipment

Use only non-sparking tools

Take precautionary measures against static discharge

#### **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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

In case of fire: Use CO2, dry chemical, or foam for extinction

# **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

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

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

# Other Information

- · May be harmful if swallowed
- · May be harmful in contact with skin
- · Harmful to aquatic life with long lasting effects

Unknown acute toxicity 7.1515% of the mixture consists of ingredient(s) of unknown toxicity

# 3. Composition/information on Ingredients

Chemical Name	CAS-No	Weight-%	Trade secret
Butyrolactone	96-48-0	1 - 15	*
Glycol Ether	Proprietary	1 - 10	*
Oxo-hexyl acetate	88230-35-7	1 - 5	*
Glycol Ether # 2	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

#### **Description of 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 required.

Eye contact If symptoms persist, call 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.

**Inhalation** If breathing is irregular or stopped, administer artificial respiration. Remove to fresh air.

Consult a physician. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

Self-protection of the first aider

Remove all sources of ignition.

Most important symptoms and effects, both acute and delayed

Symptoms Hives.

Indication of any immediate medical 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.

#### 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 Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation.

**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 containment 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 Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

# 7. Handling and Storage

Precautions for safe handling

Handling Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of

ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge,

all metal parts of the equipment must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

Incompatible materials Strong oxidizing agents.

# 8. Exposure Controls/Personal Protection

#### Control parameters

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycol Ether # 2	TWA: 10 ppm	-	-

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.

**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 When using do not eat or drink. Regular cleaning of equipment, work area and clothing is

recommended.

#### 9. Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

Physical state liquid

Appearance black Odor slight amine

Color No information available Odor Threshold No information available

Property Values Remarks • Method

**pH** 7 - 9

Melting point / freezing point

Boiling point/range (°C) VALUE No information available

Flash point 51 - 55 °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
No information available

Specific gravity 0.9 - 1.1

Water solubility Practically insoluble (~0.4 ug/mL)

Solubility(ies) No information available Partition coefficient No information available

Autoignition temperature >200 °C

Decomposition temperature
Kinematic viscosity
No information available

**Other Information** 

Not applicable

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** 

Heating in air.

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

**Eye contact** Causes serious eye damage. Avoid contact with eyes.

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

Ingestion May cause gastrointestinal discomfort if consumed in large amounts. May be harmful if

swallowed. Do NOT taste or swallow.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Butyrolactone 96-48-0	= 1540 mg/kg ( Rat )	-	> 5100 mg/m³(Rat)4 h
Glycol Ether	= 4 mL/kg(Rat)	= 650 mg/kg(Rabbit)= 2500 μL/kg(Rabbit)	-
Glycol Ether # 2	= 3384 mg/kg (Rat)	= 2700 mg/kg ( Rabbit )	-

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

Sensitization No information available.

Mutagenic effects No information available.

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

fertility. Possible risk of impaired fertility.

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

Chronic toxicity May cause harm to the unborn child.

**Aspiration hazard** No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 7.1515% 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) 3760 mg/kg ATEmix (dermal) 4497 mg/kg

# 12. Ecological Information

#### ecotoxicity

53.097% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Butyrolactone	360: 72 h Desmodesmus	220 - 460: 96 h Leuciscus idus	500: 48 h Daphnia magna Straus
96-48-0	subspicatus mg/L EC50 79: 96 h	mg/L LC50 static	mg/L EC50
	Desmodesmus subspicatus mg/L		
	EC50		
Glycol Ether	500: 72 h Desmodesmus subspicatus mg/L EC50	7500: 96 h Lepomis macrochirus mg/L LC50 static 5741: 96 h Pimephales promelas mg/L LC50	EC50
		7500: 96 h Lepomis macrochirus mg/L LC50	
Glycol Ether # 2	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	EC50 2850: 24 h Daphnia magna
			mg/L EC50

# Persistence and degradability

No information available.

### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Butyrolactone 96-48-0	-0.566
Glycol Ether	-0.682

Other adverse effects No information available

13. Disp	oosal Considerations
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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.

# 14. Transport Information

DOT

UN-No UN1210

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Proper shipping name Printing Ink, Flammable

Hazard Class 3
Packing group

TDG Not regulated

MEX Not regulated

IATA

**ICAO** 

UN-No UN1210

Proper shipping name Printing Ink, Flammable

Not regulated

Hazard Class 3 Packing group III

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
Butyrolactone 96-48-0	Х	Х	X	Х	Х	Х	Х	Х
Glycol Ether	Х	Х	X	Х	Х	Х	Х	Х
Oxo-hexyl acetate 88230-35-7	Х	Х	-	-	Х	Х	Х	Х
Glycol Ether # 2	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 %
Glycol Ether -	1.0
Glycol Ether # 2 -	1.0

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
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	CAS-No	Weight-%	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Butyrolactone	96-48-0	1 - 15		Group I		
Glycol Ether		1 - 10		Group I		
Glycol Ether # 2		1 - 5		Group I		

#### **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:

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Glycol Ether	X	X	X
Glycol Ether # 2	Х	-	X

#### U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. Other Information

NFPA Health hazard 2 flammability 2 Instability 0 Physical and chemical properties -

HMIS Health hazard 2 flammability 2 Physical Hazards 0 Personal precautions X

Cincinnati, Ohio 45216

Issuing Date21-Jul-2015Revision date21-Jul-2015

**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**