

# SAFETY DATA SHEET

Print DateRevision DateRevision NumberJun-01-2015May-31-20151

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product code DA152
Product name Light Blue

Product category DA Series Nylon and Flock Screen Ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Printing operations

Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
8501 Hedge Lane Terrace
Shawnee, KS 66227
Burton Road
Heaton Mersey

Tel: 1-913-422-1888 Stockport, England SK4 3EG
Tel: 1-800-677-4657 Tel: +44 161 442 2111

Fax: 1-913-422-2294 www.nazdar.com

Emergency telephone number USA: Chemtrec: 1-800-424-9300

Outside USA: Chemtrec: 1-703-527-3887

24 Hour Emergency Phone Number

#### 2. HAZARDS IDENTIFICATION

#### Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Signal Word

None

EUH210 - Safety data sheet available on request

#### Hazards not otherwise classified (HNOC)

Combustible liquid.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Mixture</u>

Component CAS-No Weight % Trade Note
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			Secret	
Barium sulfate	7727-43-7	10 - 30	*	
Titanium dioxide	13463-67-7	5 - 10	*	
Naphtha (petroleum), heavy aromatic	64742-94-5	5 - 10	*	
Ethylene glycol monobutyl ether acetate	112-07-2	5 - 10	*	
Copper Phthalocyanine Compound	Trade Secret	1 - 5	*	
Copper Phthalocyanine Compound	Trade Secret	1 - 5	*	
Naphthalene (constituent)	91-20-3	< 0.5	*	1
Crystalline silica (cristobalite)	14464-46-1	< 0.5	*	

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

Note 1. Type of chemical: Constituent

### 4. FIRST AID MEASURES

#### **Description of first aid measures**

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Get medical attention if irritation develops and

persists.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Remove

contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention. Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or

**Inhalation**Remove person to fresh air and keep comfortable for breathing. If breathing is irrestopped, administer artificial respiration. Get medical attention immediately.

DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or poison control center immediately.

#### Most important symptoms and effects, both acute and delayed

None under normal use conditions.

Ingestion

# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

# **Suitable Extinguishing Media**

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

# 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and

clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

#### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and

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waterways. Local authorities should be advised if significant spillages cannot be contained.

# Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Handling Use personal protective equipment as required. Do not eat, drink or smoke when using this

product. Ensure adequate ventilation.

#### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

open flames, hot surfaces and sources of ignition. Keep container closed when not in use.

Keep out of the reach of children.

Incompatible Products Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure limits**

Component	ACGIH TLV
Barium sulfate 7727-43-7	TWA: 10 mg/m³
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm
Naphthalene (constituent) 91-20-3	TWA: 10 ppm STEL: 15 ppm Skin
Crystalline silica (cristobalite) 14464-46-1	TWA: 0.025 mg/m³ (respirable fraction)

Component	OSHA PEL	
Barium sulfate	TWA: 10 mg/m³ (total dust)	
7727-43-7	TWA: 5 mg/m³ (respirable fraction)	
	TWA: 15 mg/m³ (total dust)	
Titanium dioxide	TWA: 10 mg/m³ (total dust)	
13463-67-7	TWA: 15 mg/m³ (total dust)	
Naphthalene (constituent)	TWA: 10 ppm	
91-20-3	TWA: 50 mg/m <sup>3</sup>	
	STEL: 15 ppm	
	STEL: 75 mg/m <sup>3</sup>	
Crystalline silica (cristobalite)	TWA: 0.05 mg/m³ (respirable dust)	
14464-46-1		

Component	Ontario TWAEV
Barium sulfate 7727-43-7	TWA: 10 mg/m³ (total dust)
Titanium dioxide 13463-67-7	TWA: 10 mg/m³ (total dust)
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm
Naphthalene (constituent) 91-20-3	TWA: 10 ppm STEL: 15 ppm Skin

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Crystalline silica (cristobalite)	TWA: 0.05 mg/m³ (respirable)
14464-46-1	

Component	Mexico OEL (TWA)
Titanium dioxide	TWA/LMPE-PPT: 10 mg/m³ (as Ti)
13463-67-7	STEL/LMPE-CT: 20 mg/m³ (as Ti)
Naphthalene (constituent)	TWA/LMPE-PPT: 10 ppm
91-20-3	TWA/LMPE-PPT: 50 mg/m <sup>3</sup>
	STEL/LMPE-CT: 15 ppm
	STEL/LMPE-CT: 75 mg/m <sup>3</sup>
Crystalline silica (cristobalite)	TWA/LMPE-PPT: 0.05 mg/m³ (respirable fraction)
14464-46-1	

#### **Appropriate engineering controls**

#### **Engineering Measures**

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear **Eye/face Protection** 

suitable face shield. Ensure that eyewash stations and safety showers are close to the

workstation location.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Respiratory protection must be provided in

accordance with current local regulations.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before **General Hygiene Considerations** 

eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of

equipment, work area and clothing is recommended.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State** Colored Liquid Liquid **Appearance** Odor Characteristic **Odor Threshold** No information available

Property Values Remarks • Method

No data available Ha

No data available Melting point/freezing point > 149 °C / 300 °F **Boiling point/Boiling Range** 

Flash Point 71 °C / 160 °F Setaflash closed cup

No data available **Evaporation rate** 

Flammability Limit in Air Upper flammability limit No data available No data available Lower flammability limit

**Vapor Pressure** No data available **Vapor Density** No data available

**Specific Gravity** 1.5 **Water Solubility** No data available

Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available

No data available **Decomposition temperature** No data available Kinematic viscosity No data available **Dynamic viscosity** 

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Explosive Properties No data available

No data available

**Other Information** 

**Oxidizing Properties** 

Photochemically Reactive No Weight Per Gallon (lbs/gal) 12.47

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
10.5	17.08	1.31	

# 10. STABILITY AND REACTIVITY

# Reactivity

No information available.

### Chemical stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

InhalationThere is no data for this product.Eye ContactThere is no data for this product.Skin ContactThere is no data for this product.IngestionThere is no data for this product.

Component	Oral LD50
Titanium dioxide 13463-67-7	>10000 mg/kg(Rat)
Naphtha (petroleum), heavy aromatic 64742-94-5	>5000 mg/kg(Rat)
Ethylene glycol monobutyl ether acetate 112-07-2	1600 mg/kg(Rat)
Naphthalene (constituent) 91-20-3	490 mg/kg (Rat)

Component	LD50 Dermal
Naphtha (petroleum), heavy aromatic 64742-94-5	>2000 mg/kg(Rabbit)
Ethylene glycol monobutyl ether acetate 112-07-2	1480 mg/kg(Rabbit)
Naphthalene (constituent) 91-20-3	>2500 mg/kg(Rat) >20 g/kg(Rabbit)

Component	Inhalation LC50
Naphtha (petroleum), heavy aromatic 64742-94-5	>590 mg/m³ (Rat) 4 h
Naphthalene (constituent)	>340 mg/m³ (Rat) 1 h

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91-20-3	

#### Information on toxicological effects

**Symptoms** There is no data for this product.

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

Skin corrosion/irritation There is no data for this product. There is no data for this product. Eye damage/irritation Irritation There is no data for this product. There is no data for this product. Corrosivity Sensitisation There is no data for this product. There is no data for this product. **Mutagenic Effects** There is no data for this product. **Reproductive Effects** There is no data for this product. STOT - single exposure There is no data for this product. STOT - repeated exposure **Chronic Toxicity** There is no data for this product Aspiration hazard There is no data for this product.

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

Component	ACGIH
Ethylene glycol monobutyl ether acetate 112-07-2	A3

Component	IARC
Titanium dioxide 13463-67-7	Group 2B
Naphthalene (constituent) 91-20-3	Group 2B
Crystalline silica (cristobalite) 14464-46-1	Group 1

Component	NTP
Naphthalene (constituent) 91-20-3	Reasonably Anticipated

Component	OSHA
Titanium dioxide	X
13463-67-7	
Naphthalene (constituent)	X
91-20-3	
Crystalline silica (cristobalite)	X
14464-46-1	

#### Numerical measures of toxicity - Product Information

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

ATEmix (oral) 13,881.00 mg/kg
ATEmix (dermal) 16,205.00 mg/kg
ATEmix (inhalation-dust/mist) 28.60 mg/l
ATEmix (inhalation-vapor) 210.00 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

None known

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Ethylene glycol monobutyl ether acetate	72h EC50 Desmodesmus subspicatus: >500 mg/L
112-07-2	

Naphthalene (constituent)	72h EC50 Skeletonema costatum: 0.4 mg/L
91-20-3	-

Component	Fish
Copper Phthalocyanine Compound	48h LC50 Oryzias latipes: >100 mg/L [static]
Naphthalene (constituent)	96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L [static]
91-20-3	96h LC50 Pimephales promelas: 5.74 - 6.44 mg/L [flow-through]
	96h LC50 Oncorhynchus mykiss: 1.6 mg/L [flow-through]
	96h LC50 Pimephales promelas: 1.99 mg/L [static]
	96h LC50 Lepomis macrochirus: 31.0265 mg/L [static]

Component	Crustacea
Naphthalene (constituent)	48h EC50 Daphnia magna: 1.09 - 3.4 mg/L [static]
91-20-3	48h EC50 Daphnia magna: 1.96 mg/L [Flow through]
	48h LC50 Daphnia magna: 2.16 mg/L

# Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available.

Component	Partition coefficient
Naphtha (petroleum), heavy aromatic 64742-94-5	4.5
Ethylene glycol monobutyl ether acetate 112-07-2	1.51
Copper Phthalocyanine Compound	6.6
Naphthalene (constituent) 91-20-3	3.3

### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Methods Contain and dispose of waste according to local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. TRANSPORT INFORMATION

DOTNot regulatedProper Shipping NamePrinting Ink

ICAO / IATA / IMDG / IMO
Proper Shipping Name
Not Regulated
Printing Ink

# 15. REGULATORY INFORMATION

### **International Inventories**

All components are listed on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

# **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.

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Ethylene glycol monobutyl ether acetate	112-07-2	5 - 10	1.0
Naphthalene (constituent)	91-20-3	< 0.5	0.1

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Component	CAS-No	Weight %
Ethylene glycol monobutyl ether acetate	112-07-2	5 - 10

# U.S. State Regulations

Component	Massachusetts Right To Know
Barium sulfate 7727-43-7	X
Titanium dioxide 13463-67-7	Х
Naphthalene (constituent) 91-20-3	х
Crystalline silica (cristobalite) 14464-46-1	х

Component	Minnesota Right To Know
Barium sulfate 7727-43-7	X
Titanium dioxide 13463-67-7	X
Naphthalene (constituent) 91-20-3	X
Crystalline silica (cristobalite) 14464-46-1	X

Component	New Jersey Right To Know
Barium sulfate 7727-43-7	X
Titanium dioxide 13463-67-7	X
Ethylene glycol monobutyl ether acetate 112-07-2	X
Copper Phthalocyanine Compound	X
Copper Phthalocyanine Compound	X
Naphthalene (constituent) 91-20-3	X
Crystalline silica (cristobalite) 14464-46-1	X

Component	Pennsylvania Right To Know
Barium sulfate 7727-43-7	Х
Titanium dioxide 13463-67-7	Х
Ethylene glycol monobutyl ether acetate 112-07-2	Х
Copper Phthalocyanine Compound	Х
Copper Phthalocyanine Compound	X

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X
X

#### California Prop. 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Component	California Prop. 65		
Titanium dioxide	Carcinogen		
Naphthalene (constituent)	Carcinogen		

This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

#### Canada

Component	NPRI - National Pollutant Release Inventory
Naphtha (petroleum), heavy aromatic 64742-94-5	Part 5, Other Groups and Mixtures Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Ethylene glycol monobutyl ether acetate 112-07-2	Part 5, Other Groups and Mixtures Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Copper Phthalocyanine Compound	Part 1, Group A Substance total of the pure element and the equivalent weight of the element contained in any compound, alloy or mixture
Copper Phthalocyanine Compound	Part 1, Group A Substance total of the pure element and the equivalent weight of the element contained in any compound, alloy or mixture
Naphthalene (constituent) 91-20-3	Part 1, Group A Substance Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999

16. OTHER INFORMATION					
HMIS:	Health 2 *	Flammability 2	<b>Reactivity</b> 0	Personal Protection	

# Key or legend to abbreviations and acronyms used in the safety data sheet

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated to be a Human Carcinogen OSHA: (Occupational Safety & Health Administration)

X - Present

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#### 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 MSDS**