

# SAFETY DATA SHEET

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

Product identifier

Product code DALF134

Product name Medium Yellow

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
Barton 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	*	
Naphtha (petroleum), heavy aromatic	64742-94-5	5 - 10	*	
Ethylene glycol monobutyl ether acetate	112-07-2	5 - 10	*	
Titanium dioxide	13463-67-7	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

stopped, administer artificial respiration. Get medical attention immediately.

Ingestion 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.

Inhalation

## 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 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/m <sup>3</sup>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>
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 7727-43-7	TWA: 10 mg/m³ (total dust) TWA: 5 mg/m³ (respirable fraction) TWA: 15 mg/m³ (total dust)
Titanium dioxide 13463-67-7	TWA: 10 mg/m³ (total dust) TWA: 15 mg/m³ (total dust)
Naphthalene (constituent) 91-20-3	TWA: 10 ppm TWA: 50 mg/m³ STEL: 15 ppm STEL: 75 mg/m³
Crystalline silica (cristobalite) 14464-46-1	TWA: 0.05 mg/m³ (respirable dust)

Component	Ontario TWAEV
Barium sulfate 7727-43-7	TWA: 10 mg/m³ (total dust)
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m³ (total dust)
Naphthalene (constituent) 91-20-3	TWA: 10 ppm STEL: 15 ppm Skin
Crystalline silica (cristobalite) 14464-46-1	TWA: 0.05 mg/m³ (respirable)

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

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

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

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.

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

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 Colored Liquid **Physical State** Liquid **Appearance** Characteristic No information available Odor **Odor Threshold** Values Remarks • Method **Property** No data available Hq Melting point/freezing point No data available Boiling point/Boiling Range > 149 °C / 300 °F **Flash Point** 71 °C / 160 °F Setaflash closed cup **Evaporation rate** No data available Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limitNo data availableVapor PressureNo data availableVapor DensityNo data available

Specific Gravity 1.39

**Explosive Properties** 

Water Solubility
Solubility in other solvents
Partition coefficient: n-octanol/water
Autoignition Temperature
Decomposition temperature
Kinematic viscosity
No data available

No data available

Dynamic viscosity No data available

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Oxidizing Properties

Other Information

No data available

Photochemically Reactive No Weight Per Gallon (lbs/gal) 11.55

VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
10.8	` 16.27	1.25	` 149.62 ´

## 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
Naphtha (petroleum), heavy aromatic 64742-94-5	>5000 mg/kg ( Rat )
Ethylene glycol monobutyl ether acetate 112-07-2	1600 mg/kg(Rat)
Titanium dioxide 13463-67-7	>10000 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) 91-20-3	>340 mg/m³(Rat)1 h

#### 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. Eye damage/irritation There is no data for this product. There is no data for this product. Irritation Corrosivity There is no data for this product. Sensitisation 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 There is no data for this product. There is no data for this product **Chronic Toxicity** Aspiration hazard There is no data for this product.

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

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

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)	Reasonably Anticipated
91-20-3	

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

## Numerical measures of toxicity - Product Information

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

ATEmix (oral) 15,306.00 mg/kg
ATEmix (dermal) 15,755.00 mg/kg
ATEmix (inhalation-dust/mist) 27.80 mg/l
ATEmix (inhalation-vapor) 204.00 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 112-07-2	72h EC50 Desmodesmus subspicatus: >500 mg/L
Naphthalene (constituent) 91-20-3	72h EC50 Skeletonema costatum: 0.4 mg/L

Component	Fish
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
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 / IMONot RegulatedProper Shipping NamePrinting 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

<u>Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)</u>
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	×
Titanium dioxide 13463-67-7	X
Naphthalene (constituent) 91-20-3	X
Crystalline silica (cristobalite) 14464-46-1	X

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

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

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

## 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
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:HealthFlammabilityReactivityPersonal Protection2 \*20X

## 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**