

# SAFETY DATA SHEET

Published Date Jan-03-2024 Revision Date Jan-03-2024 Revision Number 2.7

# **1. IDENTIFICATION**

97LF12 Medium Yellow 9700 Series SV Screen Ink
None
l and restrictions on use Industrial Printing Operations
data sheet UNITED KINGDOM Nazdar Limited Barton Road Heaton Mersey Stockport, England SK4 3EG

Emergency telephone number

Tel: +001-800-677-4657 Fax: +001-913-422-2294 www.nazdar.com

USA: Chemtrec: +001-800-424-9300 Outside USA: Chemtrec: +001-703-527-3887 24 Hour Emergency Phone Number

# 2. HAZARDS IDENTIFICATION

Tel: +44 161 442 2111

# **Classification**

Acute toxicity - Inhalation (Vapors)	Category 3 - (H331)
Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)

### Label elements



Signal word Danger

# Hazard statements

H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H331 - Toxic if inhaled

### **Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves and eye/face protection

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P311 - Call a POISON CENTER or doctor

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

# Hazards not otherwise classified (HNOC)

No information available.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Mixture

Chemical name	CAS No.	Weight-%	Trade secret	Note
2-Butoxyethanol	111-76-2	30 - 60	*	
Resin	Not Available	5 - 10	*	
Titanium Dioxide	13463-67-7	1 - 5	*	

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

# 4. FIRST-AID MEASURES

# Description of first aid measures

General Advice Eye Contact	Show this safety data sheet to the doctor in attendance. 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.
Inhalation	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.

### 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

Chemical name	ACGIH TLV
2-Butoxyethanol	TWA: 20 ppm
111-76-2	
Titanium Dioxide	TWA: 0.2 mg/m <sup>3</sup> nanoscale respirable particulate matter
13463-67-7	TWA: 2.5 mg/m <sup>3</sup> finescale respirable particulate matter
Chemical name	OSHA PEL
2-Butoxyethanol	TWA: 50 ppm
111-76-2	TWA: 240 mg/m <sup>3</sup>
	Skin
Titanium Dioxide	TWA: 15 mg/m <sup>3</sup> total dust
13463-67-7	
Chemical name	OSHA PEL (vacated)
2-Butoxyethanol	TWA: 25 ppm
111-76-2	TWA: 120 mg/m <sup>3</sup>
111702	Skin
Titanium Dioxide	TWA: 10 mg/m <sup>3</sup> total dust
13463-67-7	

Chemical name	Ontario TWAEV	]
2-Butoxyethanol	TWA: 20 ppm	
111-76-2		
Titanium Dioxide	TWA: 10 mg/m <sup>3</sup>	
13463-67-7		
Chemical name	Mexico OEL (TWA)	
2-Butoxyethanol	TWA/VLE-PPT: 20 ppm	
111-76-2		
Titanium Dioxide	TWA/VLE-PPT: 10 mg/m <sup>3</sup>	
13463-67-7		
Appropriate engineering control	S	
Engineering Measures	Provide a good standard of general ventilation. Natural ventilation is f	
	etc. Controlled ventilation means air is supplied or removed by a pow	
	advised to consider national Occupational Exposure Limits or other e	quivalent values. In
	case of insufficient ventilation, wear suitable respiratory equipment.	
Individual protection massures	such as personal protective equipment	
individual protection measures,	such as personal protective equipment	
Eye/Face Protection	Wear safety glasses with side shields (or goggles). If splashes are lik	ely to occur:. Wear
	suitable face shield. Ensure that eyewash stations and safety shower	
	workstation location.	
Skin Protection	Wear impervious protective clothing, including boots, gloves, lab coat	, apron or coveralls, as
	appropriate, to prevent skin contact.	
Hand Protection	Chemical resistant protective gloves.	d. Drotostivo indov 6
	Suitable materials also with prolonged, direct contact (Recommended	
	corresponding >480 minutes of permeation time): eg. nitrile rubber (0	.4 mm), chioroprene
	rubber (0.5 mm), polyvinylchloride (0.7 mm) and other	data and information
	Supplementary note: The specifications are based on tests, literature of glove manufacturers. Taking into account the varying conditions, t	
	chemical-protective glove in practice may be much shorter than the p	
	determined through testing.	
	Due to different glove types, the manufacturer's directions for use sho	ould be observed
	Replace gloves immediately when torn or any change in appearance	
	dimension, color, flexibility.	is noticed such as
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/M	SHA approved
	respiratory protection should be worn. Respiratory protection must b	
	accordance with current local regulations. Selection of air-purifying or	positive-pressure
	supplied-air will depend on the specific operation and the potential air	rborne concentration of
	the material.	
General Hygiene Considerati	ons Handle in accordance with good industrial hygiene and safety practic	e. Wash hands before
· -	eating, drinking or smoking. Wash contaminated clothing before reus	
	eyes, skin and clothing. Wear suitable gloves and eye/face protection	<ol> <li>Regular cleaning of</li> </ol>
	equipment, work area and clothing is recommended.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and Physical state Odor	<u>chemical properties</u> Liquid Characteristic	Appearance Odor Threshold	Colored No information available
Property pH	<u>Values</u>	Remarks • Method No data available	
Melting Point / Freezing Point Boiling Point / Boiling Range	No information available > 149 °C / 300 °F	No data available	

553.71

Flarmability Limit in Air       No data available         Upper flammability limit       No data available         Lower flammability limit       No data available         Vapor Pressure       No data available         Vapor Density       No data available         Specific Gravity       1.03         Water Solubility       No data available         Solubility in other solvents       No data available         Partition coefficient: n-octanol/water       No data available         Autoignition Temperature       No information available         Hyphen       No data available         Kinematic viscosity       No data available         Dynamic viscosity       No data available         Oxidizing Properties       No data available         Other information       No data available         Photochemically Reactive       No         Weight Per Gallon (lbs/gal)       8.55	ams/liter water)
Flammability Limit in Air       No data available         Lower flammability limit       No data available         Vapor Pressure       No data available         Vapor Density       No data available         Specific Gravity       1.03         Water Solubility in other solvents       No data available         Partition coefficient: n-octanol/water       No information available         Autoignition Temperature       No information available         Hyphen       No data available         Kinematic viscosity       No data available         Dynamic viscosity       No data available         No data available       No data available         Oxidizing Properties       No data available	
Flammability Limit in Air       No data available         Upper flammability limit       No data available         Lower flammability limit       No data available         Vapor Pressure       No data available         Vapor Density       No data available         Specific Gravity       1.03         Water Solubility       No data available         Solubility in other solvents       No data available         Partition coefficient: n-octanol/water       No information available         Autoignition Temperature       No information available         Hyphen       No data available         Kinematic viscosity       No data available         Dynamic viscosity       No data available         Explosive Properties       No data available	
Flammability Limit in Air       No data available         Upper flammability limit       No data available         Lower flammability limit       No data available         Vapor Pressure       No data available         Vapor Density       No data available         Specific Gravity       1.03         Water Solubility       No data available         Solubility in other solvents       No data available         Partition coefficient: n-octanol/water       No data available         Autoignition Temperature       No information available         Hyphen       No data available         Kinematic viscosity       No data available	
Flammability Limit in Air Upper flammability limit No data available	
Flash Point       62 °C / 143 °F       Pensky Martens Closed Cup (PMC)         Evaporation rate       No data available	C)

# **10. STABILITY AND REACTIVITY**

4.62

57.09

## Reactivity

No information available.

<u>Chemical stability</u> Stable under normal conditions.

53.98

## 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

Inhalation	Specific test data for the substance or mixture is not available. Toxic if inhaled. (based on components).
Eye Contact	Specific test data for the substance or mixture is not available.
Skin Contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
	· · · · · · · · · · · · · · · · · · ·

Chemical name	Oral LD50
2-Butoxyethanol	= 470 mg/kg (Rat)

	000 mg/kg (Rat)
3463-67-7	

Chemical name	Dermal LD50
2-Butoxyethanol	= 435 mg/kg (Rabbit)
111-76-2	
Resin	> 2000 mg/kg (Rat)
Chemical name	Inhalation LC50

Chemical name	Inhalation LC50
2-Butoxyethanol	= 450 ppm (Rat) 4 h
111-76-2	= 486 ppm (Rat) 4 h
Titanium Dioxide	= 5.09 mg/L (Rat)4 h
13463-67-7	

# Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Specific test data for the substance or mixture is not available.	
Delayed and immediate effects as v	vell as chronic effects from shor	rt and long-term exposure
Skin corrosion/irritation	Specific test data for the substan redness and swelling). (based or	nce or mixture is not available. Causes skin irritation (pain, n components).
Eye damage/irritation		nce or mixture is not available. Causes serious eye irritation.
Irritation	Specific test data for the substan	nce or mixture is not available.
Corrosivity	Specific test data for the substan	nce or mixture is not available.
Sensitization	Specific test data for the substance or mixture is not available. May cause an allergic skin reaction. (based on components).	
Mutagenic Effects	Specific test data for the substance or mixture is not available.	
Carcinogenic effects	Specific test data for the substance or mixture is not available.	
Reproductive Effects	Specific test data for the substance or mixture is not available.	
STOT - single exposure	Specific test data for the substance or mixture is not available.	
STOT - repeated exposure	Specific test data for the substance or mixture is not available.	
Chronic Toxicity	Specific test data for the substance or mixture is not available	
Aspiration hazard	Specific test data for the substance or mixture is not available.	
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.	
Chemical name		ACGIH
2-Butoxyethanol 111-76-2		A3
Titanium Dioxide 13463-67-7		АЗ
Chemical name		IARC
Titanium Dioxide		Group 2B
13463-67-7		

Chemical name	OSHA
Titanium Dioxide	Х
13463-67-7	

# Numerical measures of toxicity - Product Information

Unknown acute toxicity

0 % 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)	872.20 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00

ATEmix (inhalation-dust/mist)	0.930 mg/l
ATEmix (inhalation-vapor)	5.57 mg/l

# **12. ECOLOGICAL INFORMATION**

<u>Ecotoxicity</u> Specific test data for the substance or mixture is not available.

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

Chemical name	Fish
2-Butoxyethanol	96h LC50 Lepomis macrochirus: = 1490 mg/L (static)
111-76-2	96h LC50 Lepomis macrochirus: = 2950 mg/L
Resin	96h LC50 Oncorhynchus mykiss: = 11.5 mg/L (static)

Chemical name	Crustacea
2-Butoxyethanol 111-76-2	48h EC50 Daphnia magna: > 1000 mg/L

# Persistence and Degradability

No information available.

# **Bioaccumulation**

Chemical name	Partition coefficient
2-Butoxyethanol	0.81
111-76-2	

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
Note:	This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.
DOT UN/ID no Proper Shipping Name Transport hazard class(es) Packing Group	UN2810 Toxic Liquid, Organic, N.O.S. (2-Butoxyethanol) 6.1 III
ICAO / IATA / IMDG / IMO UN/ID no Proper Shipping Name	UN2810 Toxic Liquid, Organic, N.O.S. (2-Butoxyethanol)

Transport hazard class(es)	6.1
Packing Group	III

# **15. REGULATORY INFORMATION**

### International Inventories

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

# U.S. Federal Regulations

# <u>SARA 313</u>

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 CAS No. | Weight-% | SARA 313 - Threshold

	CAS NO.	weight-%	Values %
2-Butoxyethanol	111-76-2	30 - 60	1.0

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

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

# US State Regulations

Chemical name	Massachusetts
2-Butoxyethanol 111-76-2	X
Titanium Dioxide 13463-67-7	X

	Minnesota Right To Know
2-Butoxyethanol 111-76-2	X
Titanium Dioxide 13463-67-7	X

Chemical name	New Jersey
2-Butoxyethanol 111-76-2	X
Titanium Dioxide 13463-67-7	x

Chemical name	Pennsylvania
2-Butoxyethanol 111-76-2	x
Titanium Dioxide 13463-67-7	X

# California Proposition 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

Chemical name	California Proposition 65
Titanium Dioxide	Carcinogen

# <u>Canada</u>

Chemical name	NPRI - National Pollutant Release Inventory
2-Butoxyethanol	Part 1, Group A Substance
111-76-2	Part 5 Substance - Volatile Organic Compounds with Additional

Reporting Requirements Part 4 Substance - Criteria Air Contaminants

# **16. OTHER INFORMATION**

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

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 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 Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated to be a Human Carcinogen OSHA: (Occupational Safety & Health Administration) X - Present

# Revision Date

### Pursuant to NOM-018-STPS-2015

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

### 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**