

# SAFETY DATA SHEET

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

**Product identifier** 

Product code 7269
Product name Green

Product category 7200 Series Lacquer 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

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Skin Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Flammable liquids	Category 3 - (H226)

#### **Label elements**





Signal Word Warning

#### **Hazard Statements**

H302 - Harmful if swallowed H312 - Harmful in contact with skin H315 - Causes skin irritation

H319 - Causes serious eye irritation H226 - Flammable liquid and vapor

#### **Precautionary Statements**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### Hazards not otherwise classified (HNOC)

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Ethylene glycol monopropyl ether	2807-30-9	10 - 30	*	
2-Butoxyethanol	111-76-2	10 - 30	*	
Titanium dioxide	13463-67-7	5 - 10	*	
Isopropyl alcohol	67-63-0	5 - 10	*	
Copper Phthalocyanine Compound	Trade Secret	1 - 5	*	
Toluene	108-88-3	1 - 5	*	

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

# 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.

**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**

Component	ACGIH TLV
2-Butoxyethanol 111-76-2	TWA: 20 ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m³
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm
Toluene 108-88-3	TWA: 20 ppm

Component	OSHA PEL
2-Butoxyethanol	TWA: 25 ppm
111-76-2	TWA: 120 mg/m <sup>3</sup>
	TWA: 50 ppm
	TWA: 240 mg/m <sup>3</sup>
	Skin
Titanium dioxide	TWA: 10 mg/m³ (total dust)
13463-67-7	TWA: 15 mg/m³ (total dust)
Isopropyl alcohol	TWA: 400 ppm
67-63-0	TWA: 980 mg/m <sup>3</sup>
	STEL: 500 ppm
	STEL: 1225 mg/m <sup>3</sup>
Toluene	TWA: 100 ppm
108-88-3	TWA: 375 mg/m <sup>3</sup>
	STEL: 150 ppm

STEL: 560 mg/m³
TWA: 200 ppm
Ceiling: 300 ppm

Component	Ontario TWAEV
Ethylene glycol monopropyl ether 2807-30-9	TWA: 25 ppm TWA: 110 mg/m³ Skin
2-Butoxyethanol 111-76-2	TWA: 20 ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m³ (total dust)
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm
Toluene 108-88-3	TWA: 20 ppm

Component	Mexico OEL (TWA)
2-Butoxyethanol	TWA/LMPE-PPT: 26 ppm
111-76-2	TWA/LMPE-PPT: 120 mg/m <sup>3</sup>
	STEL/LMPE-CT: 75 ppm
	STEL/LMPE-CT: 360 mg/m <sup>3</sup>
Titanium dioxide	TWA/LMPE-PPT: 10 mg/m³ (as Ti)
13463-67-7	STEL/LMPE-CT: 20 mg/m³ (as Ti)
Isopropyl alcohol	TWA/LMPE-PPT: 400 ppm
67-63-0	TWA/LMPE-PPT: 980 mg/m <sup>3</sup>
	STEL/LMPE-CT: 500 ppm
	STEL/LMPE-CT: 1225 mg/m <sup>3</sup>
Toluene	TWA/LMPE-PPT: 50 ppm
108-88-3	TWA/LMPE-PPT: 188 mg/m <sup>3</sup>

#### **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

**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

Physical State Liquid Appearance Colored Liquid

Odor Characteristic Odor Threshold No information available

PropertyValuesRemarks • MethodpHNo data available

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No data available

Melting point/freezing point

Boiling point/Boiling Range > 149 °C / 300 °F

Flash Point 32 °C / 90 °F Tag closed cup
Evaporation rate No data available

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor Pressure
Vapor Density

No data available
No data available
No data available
No data available

Specific Gravity 1.12

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

Explosive Properties No data available Oxidizing Properties No data available

**Other Information** 

Photochemically Reactive No Weight Per Gallon (lbs/gal) 9.32

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
52.06	57.89	4.86	581.8

# 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
Ethylene glycol monopropyl ether 2807-30-9	3089 mg/kg (Rat)
2-Butoxyethanol	470 mg/kg (Rat)

111-76-2	
Titanium dioxide 13463-67-7	>10000 mg/kg(Rat)
Isopropyl alcohol 67-63-0	4396 mg/kg ( Rat )
Copper Phthalocyanine Compound	3000 mg/kg(Rat)
Toluene 108-88-3	636 mg/kg ( Rat )

Component	LD50 Dermal
Ethylene glycol monopropyl ether 2807-30-9	960 μL/kg (Rabbit)
2-Butoxyethanol	2270 mg/kg(Rat)
111-76-2	220 mg/kg(Rabbit)
Isopropyl alcohol	12870 mg/kg (Rabbit)
67-63-0	12800 mg/kg (Rat)
Toluene	12124 mg/kg (Rat)
108-88-3	8390 mg/kg (Rabbit)

Component	Inhalation LC50	
2-Butoxyethanol	2.21 mg/L (Rat) 4 h	
111-76-2	450 ppm (Rat) 4 h	
Isopropyl alcohol	72.6 mg/L (Rat) 4 h	
67-63-0		
Toluene	12.5 mg/L (Rat) 4 h	
108-88-3	>26700 ppm (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.
Irritation	There is no data for this product.
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.
Chronic Toxicity	There is no data for this product
Aspiration hazard	There is no data for this product.
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<u>Carcinogenicity</u> The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH
2-Butoxyethanol	A3
111-76-2	

Component	IARC
Titanium dioxide	Group 2B
13463-67-7	

Component	OSHA
Titanium dioxide	X
13463-67-7	

# Numerical measures of toxicity - Product Information

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

 ATEmix (oral)
 1,813.00 mg/kg

 ATEmix (dermal)
 2,461.00 mg/kg

ATEmix (inhalation-dust/mist) 11.40 mg/l ATEmix (inhalation-vapor) 59.00 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
Isopropyl alcohol 67-63-0	72h EC50 Desmodesmus subspicatus: >1000 mg/L 96h EC50 Desmodesmus subspicatus: >1000 mg/L
Toluene 108-88-3	72h EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static] 96h EC50 Pseudokirchneriella subcapitata: 433 mg/L

Component	Fish
2-Butoxyethanol 111-76-2	96h LC50 Lepomis macrochirus: 1490 mg/L [static] 96h LC50 Lepomis macrochirus: 2950 mg/L
Isopropyl alcohol 67-63-0	96h LC50 Pimephales promelas: 11130 mg/L [static] 96h LC50 Pimephales promelas: 9640 mg/L [flow-through] 96h LC50 Lepomis macrochirus: >1400000 µg/L
Copper Phthalocyanine Compound	96h LC50 Lepomis macrochirus: 752.4 mg/L [static]
Toluene 108-88-3	96h LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static] 96h LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static] 96h LC50 Pimephales promelas: 15.22 - 19.05 mg/L [flow-through] 96h LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through] 96h LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static] 96h LC50 Pimephales promelas: 12.6 mg/L [static] 96h LC50 Poecilia reticulata: 28.2 mg/L [semi-static] 96h LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static] 96h LC50 Oryzias latipes: 54 mg/L [static]

Component	Crustacea	
2-Butoxyethanol	24h EC50 Daphnia magna: 1698 - 1940 mg/L	
111-76-2	48h EC50 Daphnia magna: >1000 mg/L	
Isopropyl alcohol	48h EC50 Daphnia magna: 13299 mg/L	
67-63-0		
Copper Phthalocyanine Compound	24h EC50 Daphnia magna Straus: >500 mg/L	
Toluene	48h EC50 Daphnia magna: 5.46 - 9.83 mg/L [static]	
108-88-3	48h EC50 Daphnia magna: 11.5 mg/L	

# **Persistence and Degradability**

No information available.

# **Bioaccumulation**

No information available.

Component	Partition coefficient
2-Butoxyethanol 111-76-2	0.81
Isopropyl alcohol 67-63-0	0.05
Toluene 108-88-3	2.65

# Other adverse effects

No information available

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13.	DISPUSAL	. Consider	AHUNS

#### 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

#### DOT

UN1210
Proper Shipping Name
UN1210
Printing Ink

Hazard Class 3 Packing Group III

#### ICAO / IATA / IMDG / IMO

UN/ID no. UN1210
Proper Shipping Name Printing Ink

Hazard Class 3 Packing Group III

# 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 monopropyl ether	2807-30-9	10 - 30	1.0
2-Butoxyethanol	111-76-2	10 - 30	1.0
Toluene	108-88-3	1 - 5	1.0

# 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:

7101.1		
Component	CAS-No	Weight %
Ethylene glycol monopropyl ether	2807-30-9	10 - 30
Toluene	108-88-3	1 - 5

# U.S. State Regulations

Component	Massachusetts Right To Know
2-Butoxyethanol 111-76-2	×
Titanium dioxide 13463-67-7	×
Isopropyl alcohol 67-63-0	X
Toluene 108-88-3	X

Component	Minnesota Right To Know
2-Butoxyethanol 111-76-2	X

Titanium dioxide 13463-67-7	X
Isopropyl alcohol 67-63-0	X
Toluene 108-88-3	X

Component	New Jersey Right To Know
Ethylene glycol monopropyl ether 2807-30-9	X
2-Butoxyethanol 111-76-2	Х
Titanium dioxide 13463-67-7	Х
Isopropyl alcohol 67-63-0	X
Copper Phthalocyanine Compound	Х
Toluene 108-88-3	Х

Component	Pennsylvania Right To Know
Ethylene glycol monopropyl ether 2807-30-9	X
2-Butoxyethanol 111-76-2	X
Titanium dioxide 13463-67-7	X
Isopropyl alcohol 67-63-0	X
Copper Phthalocyanine Compound	X
Toluene 108-88-3	X

<u>California Prop. 65</u>
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other

reproductive harm	ì
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Component	California Prop. 65
Titanium dioxide	Carcinogen
Toluene	Developmental
	Female Reproductive

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
Ethylene glycol monopropyl ether 2807-30-9	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
2-Butoxyethanol 111-76-2	Part 1, Group A Substance Part 5, Individual Substances 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
Isopropyl alcohol 67-63-0	Part 1, Group A Substance Part 5, Individual Substances 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
Toluene 108-88-3	Part 1, Group A Substance Part 5, Individual Substances 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 \*30X

# 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

Revision Date May-30-2015

#### **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**