

SAFETY DATA SHEET

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1. IDENTIFICATION

Product identifier

Product code 7252

Product name Super Opaque Black

Product category 7200 Series SV Lacquer Screen Ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Industrial Printing Operations

Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
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Heaton Mersey

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Emergency telephone number

USA: Chemtrec: +001-800-424-9300

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24 Hour Emergency Phone Number

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Flammable liquids	Category 3 - (H226)

Label elements





Signal word Warning

Hazard statements

H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P264 - Wash face, hands and any exposed skin thoroughly after handling

P337 + P313 - If eye irritation persists: Get medical advice/attention

P403 + P235 - Store in a well-ventilated place. Keep cool

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Inhalation

Chemical name	CAS No.	Weight-%	Trade	Note
			secret	
Ethylene glycol monopropyl ether	2807-30-9	30 - 60	*	
2-Butoxyethanol	111-76-2	10 - 30	*	
Resin	Not Available	5 - 10	*	
Isopropyl alcohol	67-63-0	5 - 10	*	
Carbon black	1333-86-4	1 - 5	*	
Toluene	108-88-3	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 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

Remove person to restrain and keep committable for breathing. In breathing is irregular of

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	TWA: 200 nnm
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm
Carbon black	TWA: 3 mg/m³ inhalable particulate matter
1333-86-4	
Toluene	TWA: 20 ppm
108-88-3	

Chemical name	OSHA PEL
2-Butoxyethanol	TWA: 50 ppm
111-76-2	TWA: 240 mg/m ³
	Skin
Isopropyl alcohol	TWA: 400 ppm
67-63-0	TWA: 980 mg/m ³
Carbon black	TWA: 3.5 mg/m ³
1333-86-4	
Toluene	TWA: 200 ppm
108-88-3	Ceiling: 300 ppm

Chemical name	OSHA PEL (vacated)
2-Butoxyethanol	TWA: 25 ppm
111-76-2	TWA: 120 mg/m ³
	Skin
Isopropyl alcohol	TWA: 400 ppm
67-63-0	TWA: 980 mg/m³
	STEL: 500 ppm
	STEL: 1225 mg/m ³
Carbon black	TWA: 3.5 mg/m ³
1333-86-4	
Toluene	TWA: 100 ppm
108-88-3	TWA: 375 mg/m³
	STEL: 150 ppm
	STEL: 560 mg/m³

Chemical name	Ontario TWAEV
Ethylene glycol monopropyl ether	TWA: 25 ppm
2807-30-9	TWA: 110 mg/m ³
	Skin
2-Butoxyethanol	TWA: 20 ppm
111-76-2	
Isopropyl alcohol	TWA: 200 ppm
67-63-0	STEL: 400 ppm
Carbon black	TWA: 3 mg/m³ inhalable particulate matter
1333-86-4	
Toluene	TWA: 20 ppm
108-88-3	

Chemical name	Mexico OEL (TWA)
2-Butoxyethanol 111-76-2	TWA/VLE-PPT: 20 ppm
Isopropyl alcohol 67-63-0	TWA/VLE-PPT: 200 ppm STEL/PPT-CT: 400 ppm
Carbon black 1333-86-4	TWA/VLE-PPT: 3 mg/m³ inhalable fraction
Toluene 108-88-3	TWA/VLE-PPT: 20 ppm

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.

Hand Protection Chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6,

corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene

rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a

chemical-protective glove in practice may be much shorter than the permeation time

determined through testing.

Respiratory Protection

Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

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. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

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 Colored **Appearance**

Odor Characteristic Odor Threshold No information available

Property Values Remarks • Method

No data available No information available **Melting Point / Freezing Point** No data available > 149 °C / 300 °F Boiling Point / Boiling Range

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

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

Lower flammability limit No data available **Vapor Pressure** No data available **Vapor Density** No data available

Specific Gravity 1.05 Water Solubility No data available

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

Kinematic viscosity No data available **Dynamic viscosity** No data available

Explosive Properties No data available **Oxidizing Properties** No data available

Other information

Photochemically Reactive No Weight Per Gallon (lbs/gal) 8.73

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
56.68	58.19	4.95	593.27

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

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Chemical name	Oral LD50
Ethylene glycol monopropyl ether 2807-30-9	= 3089 mg/kg (Rat)
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)
Carbon black 1333-86-4	> 15400 mg/kg (Rat)
Toluene 108-88-3	= 2600 mg/kg (Rat)

Chemical name	Dermal LD50
Ethylene glycol monopropyl ether 2807-30-9	= 870 mg/kg (Rabbit)
2-Butoxyethanol 111-76-2	= 435 mg/kg (Rabbit)
Isopropyl alcohol 67-63-0	= 4059 mg/kg (Rabbit)
Toluene 108-88-3	= 12000 mg/kg (Rabbit)

Chemical name	Inhalation LC50	
Ethylene glycol monopropyl ether	= 1530 ppm (Rat) 7 h	
2807-30-9		
2-Butoxyethanol	= 450 ppm (Rat) 4 h	
111-76-2	= 486 ppm (Rat) 4 h	
Isopropyl alcohol	> 10000 ppm (Rat) 6 h	
67-63-0		
Carbon black	> 4.6 mg/m³ (Rat) 4 h	
1333-86-4		
Toluene	= 12.5 mg/L (Rat)4 h	
108-88-3		

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 well as chronic effects from short and long-term exposure

Skin corrosion/irritation Specific test data for the substance or mixture is not available. Causes skin irritation (pain,

redness and swelling). (based on components).

Eye damage/irritation Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components).

IrritationSpecific test data for the substance or mixture is not available.CorrosivitySpecific test data for the substance 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 EffectsSpecific test data for the substance or mixture is not available.Carcinogenic effectsSpecific test data for the substance or mixture is not available.Reproductive EffectsSpecific test data for the substance or mixture is not available.STOT - single exposureSpecific test data for the substance or mixture is not available.STOT - repeated exposureSpecific test data for the substance or mixture is not available.Chronic ToxicitySpecific test data for the substance or mixture is not available.Aspiration hazardSpecific 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.

Garoniogernoity	The table below indicates when	or each agency has herea any ingredient as a saremegen.
Chemical name		ACGIH
2-Butoxyethanol 111-76-2		A3
Carbon black 1333-86-4		A3

Chemical name	IARC
Carbon black	Group 2B
1333-86-4	

Chemical name	OSHA
Carbon black	X
1333-86-4	

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)
 7,321.50 mg/kg

 ATEmix (dermal)
 3,598.60 mg/kg

 ATEmix (inhalation-gas)
 99,999.00

 ATEmix (inhalation-dust/mist)
 9.15 mg/l

 ATEmix (inhalation-vapor)
 67.10 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

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	Algae/aquatic plants
Isopropyl alcohol	96h EC50 Desmodesmus subspicatus: > 1000 mg/L
67-63-0	72h EC50 Desmodesmus subspicatus: > 1000 mg/L
Toluene	96h EC50 Pseudokirchneriella subcapitata: > 433 mg/L
108-88-3	72h EC50 Pseudokirchneriella subcapitata: = 12.5 mg/L static

Chemical name	Fish
1 , 0, 1 ,	96h LC50 Pimephales promelas: > 5000 mg/L (static)
2807-30-9	
2-Butoxyethanol	96h LC50 Lepomis macrochirus: = 1490 mg/L (static)

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

Chemical name	Crustacea
2-Butoxyethanol 111-76-2	48h EC50 Daphnia magna: > 1000 mg/L
Isopropyl alcohol 67-63-0	48h EC50 Daphnia magna: = 13299 mg/L
Toluene 108-88-3	48h EC50 Daphnia magna: 5.46 - 9.83 mg/L Static 48h EC50 Daphnia magna: = 11.5 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical name	Partition coefficient
2-Butoxyethanol	0.81
111-76-2	
Isopropyl alcohol	0.05
67-63-0	
Toluene	2.7
108-88-3	

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.

<u>DOT</u>

UN/ID no UN1210
Proper Shipping Name Printing Ink

Transport hazard class(es) 3
Packing Group III

ICAO / IATA / IMDG / IMO

UN/ID no UN1210
Proper Shipping Name Printing Ink

Transport hazard class(es) 3
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

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	CAS No.	Weight-%	SARA 313 - Threshold Values %
Ethylene glycol monopropyl ether	2807-30-9	30 - 60	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:.

Chemical name	CAS No.	Weight-%
Ethylene glycol monopropyl ether	2807-30-9	30 - 60
Toluene	108-88-3	1 - 5
Xylenes (o-, m-, p- isomers)	1330-20-7	0.1 - < 1

US State Regulations

Chemical name	Massachusetts
2-Butoxyethanol 111-76-2	X
Isopropyl alcohol 67-63-0	X
Carbon black 1333-86-4	X
Toluene 108-88-3	X

Chemical name	Minnesota Right To Know
2-Butoxyethanol 111-76-2	X
Isopropyl alcohol 67-63-0	X
Carbon black 1333-86-4	×
Toluene 108-88-3	x

Chemical name	New Jersey
Ethylene glycol monopropyl ether	X
2807-30-9	
2-Butoxyethanol	X
111-76-2	
Isopropyl alcohol	X

67-63-0	
Carbon black 1333-86-4	X
Toluene	X
108-88-3	

Chemical name	Pennsylvania
Ethylene glycol monopropyl ether	X
2807-30-9 2-Butoxyethanol	Y
111-76-2	A
Isopropyl alcohol	X
67-63-0	
Carbon black	X
1333-86-4	
Toluene	X
108-88-3	

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
Carbon black	Carcinogen
Toluene	Developmental

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

Canada

Chemical name	NPRI - National Pollutant Release Inventory
Ethylene glycol monopropyl ether	Part 5 Substance - Volatile Organic Compounds with Additional
2807-30-9	Reporting Requirements
	Part 4 Substance - Criteria Air Contaminants
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
Isopropyl alcohol	Part 1, Group A Substance
6 7 -6 3 -0	Part 5 Substance - Volatile Organic Compounds with Additional
	Reporting Requirements
	Part 4 Substance - Criteria Air Contaminants
Toluene	Part 1, Group A Substance
108-88-3	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

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 Nov-28-2023

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