

# **SAFETY DATA SHEET**

Published DateRevision DateRevision NumberNov-13-2023Nov-13-20232.7

#### 1. IDENTIFICATION

**Product identifier** 

Product code ADE359

Product name Tinting Black

Product category ADE Series SV Epoxy 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
8501 Hedge Lane Terrace
Shawnee, KS 66227
Barton Road
Heaton Mersey

Tel: +001-913-422-1888 Stockport, England SK4 3EG Tel: +001-800-677-4657 Tel: +44 161 442 2111

Fax: +001-913-422-2294 www.nazdar.com

Emergency telephone number

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

Outside USA: Chemtrec: +001-703-527-3887

24 Hour Emergency Phone Number

### 2. HAZARDS IDENTIFICATION

#### Classification

Skin sensitization	Category 1 - (H317)
Flammable liquids	Category 3 - (H226)

# Label elements





Signal word Warning

#### **Hazard statements**

H226 - Flammable liquid and vapor

H317 - May cause an allergic skin reaction

#### **Precautionary Statements**

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

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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

#### Hazards not otherwise classified (HNOC)

Causes mild skin irritation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical name	CAS No.	Weight-%	Trade	Note
			secret	
Resin	Not Available	30 - 60	*	
Dipropylene glycol monomethyl ether	34590-94-8	10 - 30	*	
Diacetone alcohol	123-42-2	5 - 10	*	
Propylene glycol monomethyl ether	107-98-2	5 - 10	*	
Carbon black	1333-86-4	1 - 5	*	
2-Butoxyethanol	111-76-2	1 - 5	*	
Additive	Not Available	0.1 - < 1	*	

<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. 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 irre

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
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm
Diacetone alcohol 123-42-2	TWA: 50 ppm
Propylene glycol monomethyl ether 107-98-2	TWA: 50 ppm STEL: 100 ppm
Carbon black 1333-86-4	TWA: 3 mg/m³ inhalable particulate matter
2-Butoxyethanol 111-76-2	TWA: 20 ppm

Chemical name	OSHA PEL
Dipropylene glycol monomethyl ether	TWA: 100 ppm
34590-94-8	TWA: 600 mg/m <sup>3</sup>
	Skin
Diacetone alcohol	TWA: 50 ppm
123-42-2	TWA: 240 mg/m <sup>3</sup>
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	-
2-Butoxyethanol	TWA: 50 ppm
111-76-2	TWA: 240 mg/m <sup>3</sup>
	Skin

Chemical name	OSHA PEL (vacated)
Dipropylene glycol monomethyl ether	TWA: 100 ppm
34590-94-8	TWA: 600 mg/m <sup>3</sup>
	STEL: 150 ppm
	STEL: 900 mg/m <sup>3</sup>
	Skin
Diacetone alcohol	TWA: 50 ppm
123-42-2	TWA: 240 mg/m <sup>3</sup>
Propylene glycol monomethyl ether	TWA: 100 ppm
107-98-2	TWA: 360 mg/m <sup>3</sup>
	STEL: 150 ppm
	STEL: 540 mg/m <sup>3</sup>
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	
2-Butoxyethanol	TWA: 25 ppm
111-76-2	TWA: 120 mg/m <sup>3</sup>
	Skin

Chemical name	Ontario TWAEV
Dipropylene glycol monomethyl ether	TWA: 100 ppm
34590-94-8	STEL: 150 ppm
	Skin
Diacetone alcohol	TWA: 50 ppm
123-42-2	
Propylene glycol monomethyl ether	TWA: 50 ppm
107-98-2	STEL: 100 ppm
Carbon black	TWA: 3 mg/m³ inhalable particulate matter
1333-86-4	
2-Butoxyethanol	TWA: 20 ppm
111-76-2	

Chemical name	Mexico OEL (TWA)
Dipropylene glycol monomethyl ether	TWA/VLE-PPT: 100 ppm
34590-94-8	STEL/PPT-CT: 150 ppm
Diacetone alcohol	TWA/VLE-PPT: 50 ppm
123-42-2	
Propylene glycol monomethyl ether	TWA/VLE-PPT: 100 ppm
107-98-2	STEL/PPT-CT: 150 ppm
Carbon black	TWA/VLE-PPT: 3 mg/m³ inhalable fraction
1333-86-4	
2-Butoxyethanol	TWA/VLE-PPT: 20 ppm
111-76-2	

# **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.

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.

**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. 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 **Appearance** Colored

**Odor Threshold** No information available Odor Characteristic

Remarks • Method Values **Property** 

No data available pН **Melting Point / Freezing Point** No information available No data available

**Boiling Point / Boiling Range** > 149 °C / 300 °F 52 °C / 125 °F Flash Point Setaflash 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** 1.09

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

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

Other information

**Photochemically Reactive** No Weight Per Gallon (lbs/gal) 9.12

VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)	_
(ICSS Walci)	(iess water)	(iess water)	(less water)	
37.02	37.85	3.38	405.24	

# 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
Dipropylene glycol monomethyl ether	= 5.35 g/kg ( Rat )
34590-94-8	
Diacetone alcohol	> 4 g/kg (Rat)
123-42-2	
Propylene glycol monomethyl ether	= 5000 mg/kg (Rat)
107-98-2	
Carbon black	> 15400 mg/kg (Rat)
1333-86-4	
2-Butoxyethanol	= 470 mg/kg ( Rat )
111-76-2	
Additive	> 3200 mg/kg (Rat)

Chemical name	Dermal LD50
Dipropylene glycol monomethyl ether 34590-94-8	= 9500 mg/kg ( Rabbit )
Diacetone alcohol 123-42-2	= 13630 mg/kg ( Rabbit )
Propylene glycol monomethyl ether 107-98-2	= 13 g/kg (Rabbit)
2-Butoxyethanol 111-76-2	= 435 mg/kg ( Rabbit )
Additive	> 2000 mg/kg (Rabbit)

Chemical name	Inhalation LC50
Diacetone alcohol	> 7.23 g/m³ (Rat) 8 h
123-42-2	
Propylene glycol monomethyl ether	> 7559 ppm (Rat) 6 h
107-98-2	
Carbon black	> 4.6 mg/m³ (Rat) 4 h
1333-86-4	
2-Butoxyethanol	= 450 ppm (Rat) 4 h
111-76-2	= 486 ppm (Rat) 4 h
Additive	> 5.3 mg/L (Rat) 6 h

#### 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/irritationSpecific test data for the substance or mixture is not available.Eye damage/irritationSpecific test data for the substance or mixture is not available.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.

- an omit gomeny	
Chemical name	ACGIH
Carbon black 1333-86-4	A3
2-Butoxyethanol 111-76-2	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)
 18,431.40 mg/kg

 ATEmix (dermal)
 99,999.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 mg/l

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

 ATEmix (inhalation-vapor)
 117.60 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	Fish
Dipropylene glycol monomethyl ether	96h LC50 Pimephales promelas: > 10000 mg/L (static)
34590-94-8	

Diacetone alcohol	96h LC50 Lepomis macrochirus: = 420 mg/L (static)
123-42-2	96h LC50 Lepomis macrochirus: = 420 mg/L
Propylene glycol monomethyl ether	96h LC50 Pimephales promelas: = 20.8 g/L (static)
107-98-2	
2-Butoxyethanol	96h LC50 Lepomis macrochirus: = 1490 mg/L (static)
111-76-2	96h LC50 Lepomis macrochirus: = 2950 mg/L
Additive	96h LC50 Pimephales promelas: > 1.55 mg/L (static)

Chemical name	Crustacea
Dipropylene glycol monomethyl ether	48h LC50 Daphnia magna: = 1919 mg/L
34590-94-8	
Propylene glycol monomethyl ether	48h EC50 Daphnia magna: = 23300 mg/L
107-98-2	
2-Butoxyethanol	48h EC50 Daphnia magna: > 1000 mg/L
111-76-2	
Additive	48h EC50 Daphnia magna: > 1.46 mg/L

### Persistence and Degradability

No information available.

#### **Bioaccumulation**

Chemical name	Partition coefficient
Dipropylene glycol monomethyl ether	-0.064
34590-94-8	
Diacetone alcohol	1.03
123-42-2	
Propylene glycol monomethyl ether	-0.437
107-98-2	
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**In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not

regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part

1.33].

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 |||

# 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 %
2-Butoxyethanol		111-76-2	1 - 5	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
Dipropylene glycol monomethyl ether 34590-94-8	X
Diacetone alcohol 123-42-2	X
Propylene glycol monomethyl ether 107-98-2	X
Carbon black 1333-86-4	X
2-Butoxyethanol 111-76-2	X

Chemical name	Minnesota Right To Know
Dipropylene glycol monomethyl ether 34590-94-8	X
Diacetone alcohol 123-42-2	x
Propylene glycol monomethyl ether 107-98-2	x
Carbon black 1333-86-4	x
2-Butoxyethanol 111-76-2	x

Chemical name	New Jersey
Dipropylene glycol monomethyl ether	X
34590-94-8	
Diacetone alcohol	X
123-42-2	
Propylene glycol monomethyl ether	Χ
107-98-2	

Carbon black 1333-86-4	X
2-Butoxyethanol 111-76-2	X

Chemical name	Pennsylvania
Dipropylene glycol monomethyl ether	X
34590-94-8	
Diacetone alcohol	X
123-42-2	
Propylene glycol monomethyl ether	X
107-98-2	
Carbon black	X
1333-86-4	
2-Butoxyethanol	X
111-76-2	

### **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

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
Dipropylene glycol monomethyl ether	Part 5 Substance - Volatile Organic Compounds with Additional
34590-94-8	Reporting Requirements
	Part 4 Substance - Criteria Air Contaminants
Diacetone alcohol	Part 4 Substance - Criteria Air Contaminants
123-42-2	
Propylene glycol monomethyl ether	Part 5 Substance - Volatile Organic Compounds with Additional
107-98-2	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

# **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-13-2023

#### 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**