

SAFETY DATA SHEET

 Print Date
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 Jan-28-2016
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 1.1

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

Product identifier

Product code 226
Product name Black

Product category Ink Product

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

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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

Skin Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Aspiration toxicity	Category 1 - (H304)

Label elements





Signal Word Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary Statements

P331 - Do NOT induce vomiting

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Talc	14807-96-6	10 - 30	*	
Barium sulfate	7727-43-7	10 - 30	*	
Solvent naphtha, petroleum, heavy aromatic	64742-94-5	10 - 30	*	
2-Butoxyethanol	111-76-2	5 - 10	*	
Naphthalene (constituent)	91-20-3	1 - 5	*	1
Crystalline silica (cristobalite)	14464-46-1	< 0.5	*	
1,2,4-Trimethylbenzene (constituent)	95-63-6	< 0.5	*	1

^{*}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.

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	
Talc 14807-96-6	TWA: 2 mg/m³ (particulate matter)	
Barium sulfate 7727-43-7	TWA: 10 mg/m³	
2-Butoxyethanol 111-76-2	TWA: 20 ppm	
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
Talc 14807-96-6	TWA: 2 mg/m³ (respirable dust)
Barium sulfate 7727-43-7	TWA: 10 mg/m³ (total dust) TWA: 5 mg/m³ (respirable fraction) TWA: 15 mg/m³ (total dust)
2-Butoxyethanol 111-76-2	TWA: 25 ppm TWA: 120 mg/m³ TWA: 50 ppm TWA: 240 mg/m³ Skin
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
Talc 14807-96-6	TWA: 2 mg/m³ (respirable)
Barium sulfate 7727-43-7	TWA: 10 mg/m³ (total dust)
2-Butoxyethanol 111-76-2	TWA: 20 ppm
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)
Talc 14807-96-6	TWA/LMPE-PPT: 2 mg/m³ (respirable fraction)
2-Butoxyethanol 111-76-2	TWA/LMPE-PPT: 26 ppm TWA/LMPE-PPT: 120 mg/m³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 360 mg/m³
Naphthalene (constituent) 91-20-3	TWA/LMPE-PPT: 10 ppm TWA/LMPE-PPT: 50 mg/m³ STEL/LMPE-CT: 15 ppm STEL/LMPE-CT: 75 mg/m³
Crystalline silica (cristobalite) 14464-46-1	TWA/LMPE-PPT: 0.05 mg/m³ (respirable fraction)

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

Property Values Remarks • Method

pH No data available
Melting point/freezing point No data available

Boiling point/Boiling Range > 149 °C / 300 °F **Flash Point** 68 °C / 155 °F Setaflash closed cup

Evaporation rateNo data available

Flammability Limit in Air
Upper flammability limit
Lower flammability limit
Vapor Pressure
No data available
No data available

Vapor Pressure
No data available
Vapor Density
No data available
Specific Gravity
1.51

Water SolubilityNo data availableSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data availableDecomposition temperatureNo data availableKinematic viscosityNo data availableDynamic viscosityNo data available

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

Other Information

Photochemically Reactive Yes Weight Per Gallon (lbs/gal) 12.63

VOC by weight %	VOC by volume %	VOC Ibs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
24.76	41.7	3.13	375.07

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

Solvent naphtha, petroleum, heavy aromatic 64742-94-5	>5000 mg/kg(Rat)
2-Butoxyethanol 111-76-2	470 mg/kg (Rat)
Naphthalene (constituent) 91-20-3	490 mg/kg (Rat)
1,2,4-Trimethylbenzene (constituent) 95-63-6	3400 mg/kg (Rat)

Component	LD50 Dermal
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	>2000 mg/kg(Rabbit)
2-Butoxyethanol 111-76-2	2270 mg/kg(Rat) 220 mg/kg(Rabbit)
Naphthalene (constituent) 91-20-3	>2500 mg/kg(Rat) >20 g/kg (Rabbit)
1,2,4-Trimethylbenzene (constituent) 95-63-6	>3160 mg/kg(Rabbit)

Component	Inhalation LC50
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	>590 mg/m³(Rat)4 h
2-Butoxyethanol 111-76-2	2.21 mg/L (Rat)4 h 450 ppm (Rat)4 h
Naphthalene (constituent) 91-20-3	>340 mg/m³ (Rat) 1 h
1,2,4-Trimethylbenzene (constituent) 95-63-6	18 g/m³(Rat) 4 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. There is no data for this product. Corrosivity Sensitisation There is no data for this product. **Mutagenic Effects** There is no data for this product. There is no data for this product. **Reproductive Effects** 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.

Example 2.1 The table below indicates whether each agency has listed any ingredient as a carcinogen.

Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a cardinogen.	
Component		ACGIH
2-Butoxyethanol		A3
111-76-2		

Component	IARC
Naphthalene (constituent)	Group 2B
91-20-3	·
Crystalline silica (cristobalite)	Group 1
14464-46-1	·

Component	NTP
Naphthalene (constituent)	Reasonably Anticipated
91-20-3	, ·

Component	OSHA
Naphthalene (constituent)	X
91-20-3	
Crystalline silica (cristobalite)	X
14464-46-1	

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 5,797.00 mg/kg
ATEmix (dermal) 6,673.00 mg/kg
ATEmix (inhalation-dust/mist) 34.64 mg/l
ATEmix (inhalation-vapor) 172.00 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

None known

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

Component	Algae/aquatic plants
Naphthalene (constituent) 91-20-3	72h EC50 Skeletonema costatum: 0.4 mg/L

Component	Fish
Talc 14807-96-6	96h LC50 Brachydanio rerio: >100 g/L [semi-static]
2-Butoxyethanol 111-76-2	96h LC50 Lepomis macrochirus: 1490 mg/L [static] 96h LC50 Lepomis macrochirus: 2950 mg/L
Naphthalene (constituent) 91-20-3	96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L [static] 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]
1,2,4-Trimethylbenzene (constituent) 95-63-6	96h LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]

Component	Crustacea
2-Butoxyethanol 111-76-2	24h EC50 Daphnia magna: 1698 - 1940 mg/L 48h EC50 Daphnia magna: >1000 mg/L
Naphthalene (constituent) 91-20-3	48h EC50 Daphnia magna: 1.09 - 3.4 mg/L [static] 48h EC50 Daphnia magna: 1.96 mg/L [Flow through] 48h LC50 Daphnia magna: 2.16 mg/L
1,2,4-Trimethylbenzene (constituent) 95-63-6	48h EC50 Daphnia magna: 6.14 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Component	Partition coefficient
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	4.5
2-Butoxyethanol 111-76-2	0.81
Naphthalene (constituent) 91-20-3	3.3
1,2,4-Trimethylbenzene (constituent) 95-63-6	3.63

Other adverse effects

No information available

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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 / IMO
Proper Shipping Name
Not Regulated
Printing 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
2-Butoxyethanol	111-76-2	5 - 10	1.0
Naphthalene (constituent)	91-20-3	1 - 5	0.1

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:.

Component	CAS-No	Weight %
Naphthalene (constituent)	91-20-3	1 - 5

U.S. State Regulations

Component	Massachusetts Right To Know
Talc 14807-96-6	X
Barium sulfate 7727-43-7	X
2-Butoxyethanol 111-76-2	X
Naphthalene (constituent) 91-20-3	X
Crystalline silica (cristobalite) 14464-46-1	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	х

Component	Minnesota Right To Know
Talc 14807-96-6	X
Barium sulfate 7727-43-7	X

2-Butoxyethanol 111-76-2	X
Naphthalene (constituent) 91-20-3	X
Crystalline silica (cristobalite) 14464-46-1	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Component	New Jersey Right To Know
Talc 14807-96-6	X
Barium sulfate 7727-43-7	X
2-Butoxyethanol 111-76-2	X
Naphthalene (constituent) 91-20-3	Х
Crystalline silica (cristobalite) 14464-46-1	Х
1,2,4-Trimethylbenzene (constituent) 95-63-6	Х

Component	Pennsylvania Right To Know
Talc 14807-96-6	X
Barium sulfate 7727-43-7	X
2-Butoxyethanol 111-76-2	X
Naphthalene (constituent) 91-20-3	X
Crystalline silica (cristobalite) 14464-46-1	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	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

Component	California Prop. 65
Naphthalene (constituent)	Carcinogen

Canada

Component	NPRI - National Pollutant Release Inventory
Solvent 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
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
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
1,2,4-Trimethylbenzene (constituent) 95-63-6	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 *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

Revision Date Jan-28-2016

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