43211-7052

NAZDAR INK TECHNOLOGIES

SAFETY DATA SHEET

Published Date Nov-13-2023

Product name

Product category

Product identifier Product code

Revision Date Nov-13-2023 **Revision Number** 2.7

1. IDENTIFICATION

59LF142 **Emerald Green** 59000 Series SV Enamel Screen Ink

UNITED KINGDOM

Nazdar Limited

Other means of identification Synonyms

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

None

Details of the supplier of the safety data sheet UNITED STATES Nazdar Company Barton Road 8501 Hedge Lane Terrace Shawnee, KS 66227 Tel: +001-913-422-1888 Heaton Mersey Stockport, England SK4 3EG Tel: +44 161 442 2111 Tel: +001-800-677-4657 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)
Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)
Aspiration hazard	Category 1 - (H304)
Flammable liquids	Category 3 - (H226)

Label elements



Danger

Hazard statements

H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

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H350 - May cause cancer

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

P201 - Obtain special instructions before use

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P331 - Do NOT induce vomiting

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

Hazards not otherwise classified (HNOC)

Causes mild skin irritation. Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS No.	Weight-%	Trade secret	Note
Stoddard solvent	8052-41-3	10 - 30	*	
Barium sulfate	7727-43-7	10 - 30	*	
Titanium Dioxide	13463-67-7	5 - 10	*	
Solvent naphtha, petroleum, heavy aromatic	64742-94-5	1 - 5	*	
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5	*	
2-Butanone, oxime	96-29-7	0.1 - < 1	*	
Ethyl benzene (constituent)	100-41-4	0.1 - < 1	*	1
Naphthalene (constituent)	91-20-3	0.1 - < 1	*	1
Cobalt Compounds	Not Available	0.1 - < 1	*	

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

Note

1. Hazardous Constituent contained in Complex Substance(s) required for disclosure

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.

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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
Stoddard solvent	TWA: 100 ppm
8052-41-3	
Barium sulfate	TWA: 5 mg/m ³ inhalable particulate matter, particulate matter
7727-43-7	containing no asbestos and <1% crystalline silica
Titanium Dioxide	TWA: 0.2 mg/m ³ nanoscale respirable particulate matter

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Kylense (c. m. p. isomers) TWA: 20 ppm Enky Lenzene (constituent) TWA: 20 ppm Enky Lenzene (constituent) TWA: 10 ppm Standard solvent TWA: 10 ppm 1303:667.7 TWA: 10 ppm 1304:567.7 TWA: 10 ppm 1303:667.7		
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100-41-4TWA: 435 mg/m³ STEL: 345 mg/m³ STEL: 545 mg/m³ STEL: 545 mg/m³ STEL: 545 mg/m³ STEL: 545 mg/m³ STEL: 545 mg/m³ STEL: 75 mg/	Ethyl benzene (constituent)	
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Naphthalene (constituent)TWA: 10 ppm TWA: 50 mg/m³ STEL: 15 ppm STEL: 75 mg/m³Chemical nameOntario TWAEVStoddard solventTWA: 525 mg/m³Barium sulfateTWA: 5 mg/m³ inhalable particulate matter7727-43-7TWA: 10 mg/m³Titanium DioxideTWA: 10 mg/m³13463-67-7STEL: 150 ppmSylence (constituent)TWA: 20 ppm100-41-4TWA: 20 ppmNaphthalene (constituent)TWA: 10 ppm91-20-3Stel: 150 ppmChemical nameMexico OEL (TWA)Stoddard solventTWA: 10 ppm3052-41-3TWA: 10 ppm13463-67-7TWA: 10 ppm130-20-7STEL: 150 ppmEthyl benzene (constituent)TWA: 20 ppm100-41-4TWA: 20 ppmNaphthalene (constituent)TWA: 10 ppm91-20-3StinStoddard solventTWA: 10 ppm3052-41-3StinBarium sulfateTWA/VLE-PPT: 100 ppm3052-41-3TWA/VLE-PPT: 10 mg/m³31463-67-7TWA/VLE-PPT: 100 ppm13463-67-7TWA/VLE-PPT: 100 ppm		
91-20-3 TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³ TWA: 52 mg/m ³ Chemical name Ch		
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7727-43-7International constructionTitanium Dioxide 13463-67-7TWA: 10 mg/m³1330-20-7TWA: 100 ppm1330-20-7STEL: 150 ppmEthyl benzene (constituent) 100-41-4TWA: 20 ppmNaphthalene (constituent) 91-20-3TWA: 10 ppmStoddard solvent 8052-41-3SkinBarium sulfate 7727-43-7TWA/VLE-PPT: 10 mg/m³Titanium Dioxide 13463-67-7 Xylenes (or, m-, p- isomers)TWA/VLE-PPT: 100 ppm		TWA: 525 mg/m ³
13463-67-7 TWA: 100 ppm Xylenes (or, mr, prisomers) TWA: 100 ppm 1330-20-7 STEL: 150 ppm Ethyl benzene (constituent) TWA: 20 ppm 100-41-4 TWA: 10 ppm Naphthalene (constituent) TWA: 10 ppm 91-20-3 Skin Chemical name Mexico OEL (TWA) Stoddard solvent TWA/VLE-PPT: 100 ppm 8052-41-3 TWA/VLE-PPT: 10 mg/m ³ Barium sulfate TWA/VLE-PPT: 10 mg/m ³ 7727-43-7 TWA/VLE-PPT: 10 mg/m ³ Titanium Dioxide TWA/VLE-PPT: 10 mg/m ³ 13463-67-7 TWA/VLE-PPT: 10 mg/m ³		
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Naphthalene (constituent) TWA: 10 ppm 91-20-3 Skin Chemical name Mexico OEL (TWA) Stoddard solvent TWA/VLE-PPT: 100 ppm 8052-41-3 TWA/VLE-PPT: 10 mg/m³ Barium sulfate TWA/VLE-PPT: 10 mg/m³ 7727-43-7 TWA/VLE-PPT: 10 mg/m³ Titanium Dioxide TWA/VLE-PPT: 10 mg/m³ 13463-67-7 TWA/VLE-PPT: 100 ppm Xylenes (o-, m-, p- isomers) TWA/VLE-PPT: 100 ppm	Ethyl benzene (constituent)	
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Stoddard solvent TWA/VLE-PPT: 100 ppm 8052-41-3 TWA/VLE-PPT: 10 mg/m³ Barium sulfate TWA/VLE-PPT: 10 mg/m³ 7727-43-7 TWA/VLE-PPT: 10 mg/m³ Titanium Dioxide TWA/VLE-PPT: 10 mg/m³ 13463-67-7 TWA/VLE-PPT: 10 mg/m³ Xylenes (o-, m-, p- isomers) TWA/VLE-PPT: 100 ppm	Chemical name	Mexico OEL (TWA)
Barium sulfate TWA/VLE-PPT: 10 mg/m³ 7727-43-7 TWA/VLE-PPT: 10 mg/m³ Titanium Dioxide TWA/VLE-PPT: 10 mg/m³ 13463-67-7 TWA/VLE-PPT: 10 mg/m³ Xylenes (o-, m-, p- isomers) TWA/VLE-PPT: 100 ppm	Stoddard solvent	
7727-43-7 TWA/VLE-PPT: 10 mg/m³ 13463-67-7 TWA/VLE-PPT: 100 ppm Xylenes (o-, m-, p- isomers) TWA/VLE-PPT: 100 ppm		
Titanium Dioxide TWA/VLE-PPT: 10 mg/m³ 13463-67-7 TWA/VLE-PPT: 100 ppm Xylenes (o-, m-, p- isomers) TWA/VLE-PPT: 100 ppm	Barium sulfate 7727-43-7	TWA/VLE-PPT: 10 mg/m ³
Xylenes (o-, m-, p- isomers) TWA/VLE-PPT: 100 ppm	Titanium Dioxide	TWA/VLE-PPT: 10 mg/m ³
	Xylenes (o-, m-, p- isomers)	
	1330-20-7	STEL/PPT-CT: 150 ppm

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Ethyl benzene (constituent)	TWA/VLE-PPT: 20 ppm
100-41-4	
Naphthalene (constituent)	TWA/VLE-PPT: 10 ppm
91-20-3	STEL/PPT-CT: 15 ppm

Appropriate engineering controls

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, s	such as personal protective equip	ment	
Eye/Face Protection	Wear safety glasses with side sh suitable face shield. Ensure that workstation location.		
Skin Protection	Wear impervious protective cloth appropriate, to prevent skin cont	e	ab coat, apron or coveralls, as
Hand Protection	Chemical resistant protective gld Suitable materials also with prote corresponding >480 minutes of p rubber (0.5 mm), polyvinylchlorid Supplementary note: The specifi of glove manufacturers. Taking chemical-protective glove in prad determined through testing. Due to different glove types, the Replace gloves immediately who dimension, color, flexibility.	onged, direct contact (Recomr permeation time): eg. nitrile rul de (0.7 mm) and other ications are based on tests, lite into account the varying cond ctice may be much shorter tha manufacturer's directions for u	ober (0.4 mm), chloroprene erature data and information itions, the practical usage of a n the permeation time use should be observed.
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 Consideration	ons Handle in accordance with good eating, drinking or smoking. Was eyes, skin and clothing. Wear su equipment, work area and clothi	sh contaminated clothing befor itable gloves and eye/face pro	e reuse. Avoid contact with
	9. PHYSICAL AND CHEMIC	AL PROPERTIES	
Information on basic physical an			
Physical state Odor	Liquid Characteristic	Appearance Odor Threshold	Colored No information available
Property pH Melting Point / Freezing Point Boiling Point / Boiling Range Flash Point Evanoration rate	<u>Values</u> No information available > 149 °C / 300 °F 46 °C / 115 °F	Remarks • Method No data available No data available Setaflash closed cup	

Boiling Point / Boiling Range Flash Point **Evaporation rate** Flammability Limit in Air Upper flammability limit Lower flammability limit Vapor Pressure

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No data available

No data available No data available

No data available

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Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition coefficient: n-octanol/wa Autoignition Temperature Hyphen Kinematic viscosity Dynamic viscosity	1.2 ater No information available	No data available No data available	
Explosive Properties Oxidizing Properties	No data available No data available		
Other information			
Photochemically Reactive Weight Per Gallon (Ibs/gal)	No 10.01		
VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
29.77	No information available	2.98	357

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.

<u>Hazardous decomposition products</u> 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.
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
Barium sulfate 7727-43-7	= 307000 mg/kg (Rat)
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	> 5000 mg/kg (Rat)
Xylenes (o-, m-, p- isomers) 1330-20-7	= 3500 mg/kg (Rat)
2-Butanone, oxime	= 930 mg/kg (Rat)

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96-29-7		1
96-29-7 Ethyl benzene (constituent)	= 3500 mg/kg (Rat)	
100-41-4	= 3500 mg/kg (Rat)	
Naphthalene (constituent)	= 1110 mg/kg (Rat)	
91-20-3	······································	
Chemical name	Dermal LD50	
Stoddard solvent	> 3000 mg/kg (Rabbit)	
8052-41-3		
Solvent naphtha, petroleum, heavy aromatic	> 2000 mg/kg (Rabbit)	
64742-94-5		
Xylenes (o-, m-, p- isomers) 1330-20-7	> 4350 mg/kg (Rabbit)	
2-Butanone, oxime	1000 - 1800 mg/kg (Rabbit)	
96-29-7	1000 - 1800 mg/kg (Kabbit)	
Ethyl benzene (constituent)	= 15400 mg/kg (Rabbit)	
100-41-4	······································	
Naphthalene (constituent)	= 1120 mg/kg (Rabbit)	
91-20-3		
Cobalt Compounds	> 5000 mg/kg (Rabbit)	
	hat start and OSO	
Chemical name Stoddard solvent	Inhalation LC50 > 5.5 mg/L (Rat)4 h	
8052-41-3	> 5.5 mg/L (Rat) 4 m	
Titanium Dioxide	= 5.09 mg/L (Rat) 4 h	
13463-67-7	0.00 mg/2 (1.00) 1 m	
Solvent naphtha, petroleum, heavy aromatic	> 590 mg/m³ (Rat)4 h	
64742-94-5		
Xylenes (o-, m-, p- isomers)	= 29.08 mg/L (Rat)4 h	
1330-20-7		
2-Butanone, oxime	> 4.83 mg/L (Rat)4 h	
96-29-7		
Ethyl benzene (constituent) 100-41-4	= 17.4 mg/L (Rat)4 h	
Naphthalene (constituent)	> 0.4 mg/L (Rat)4 h	
91-20-3	> 0.4 mg/L ((Rat) 4 m	
Cobalt Compounds	> 10 mg/L (Rat) 1 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/irritation Eye damage/irritation Irritation Corrosivity Sensitization	Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available. 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. May cause cancer. (based on components).
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. Causes damage to organs through prolonged or repeated exposure. (based on components).
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. May be fatal if swallowed and enters airways. (based on components).
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

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Chemical name	ACGIH	
Titanium Dioxide 13463-67-7	A3	
Ethyl benzene (constituent) 100-41-4	A3	
Naphthalene (constituent) 91-20-3	A3	
Chemical name	IARC	
Titanium Dioxide 13463-67-7	Group 2B	
Ethyl benzene (constituent) 100-41-4	Group 2B	
Naphthalene (constituent) 91-20-3	Group 2B	
Cobalt Compounds	Group 2B	
Chemical name	NTP	
Naphthalene (constituent) 91-20-3	Reasonably Anticipated	
Chemical name	OSHA	
Titanium Dioxide 13463-67-7	X	
Ethyl benzene (constituent) 100-41-4	X	
Naphthalene (constituent) 91-20-3	X	

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)	20,000.00	mg/kg
ATEmix (dermal)	85,977.80	mg/kg
ATEmix (inhalation-gas)	99,999.00	
ATEmix (inhalation-dust/mist)	117.20 m	g/l
ATEmix (inhalation-vapor)	859.80 m	g/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	Algae/aquatic plants
2-Butanone, oxime	72h EC50 Desmodesmus subspicatus: = 83 mg/L
96-29-7	
Ethyl benzene (constituent)	72h EC50 Pseudokirchneriella subcapitata: = 4.6 mg/L
100-41-4	96h EC50 Pseudokirchneriella subcapitata: > 438 mg/L
	72h EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L static
	96h EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L static
Chemical name	Fish
Solvent naphtha, petroleum, heavy aromatic	96h LC50 Pimephales promelas: = 19 mg/L (static)
64742-94-5	96h LC50 Oncorhynchus mykiss: = 2.34 mg/L
	96h LC50 Lepomis macrochirus: = 1740 mg/L (static)
	96h LC50 Pimephales promelas: = 45 mg/L (flow-through)

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	96h LC50 Pimephales promelas: = 41 mg/L
Xylenes (o-, m-, p- isomers)	96h LC50 Pimephales promelas: = 13.4 mg/L (flow-through)
1330-20-7	96h LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L (static)
	96h LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L
	96h LC50 Poecilia reticulata: 30.26 - 40.75 mg/L (static)
	96h LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L (flow-through)
	96h LC50 Lepomis macrochirus: = 19 mg/L
	96h LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L (static)
	96h LC50 Pimephales promelas: 23.53 - 29.97 mg/L (static)
	96h LC50 Cyprinus carpio: = 780 mg/L (semi-static)
	96h LC50 Cyprinus carpio: > 780 mg/L
2-Butanone, oxime	96h LC50 Pimephales promelas: 777 - 914 mg/L (flow-through)
96-29-7	96h LC50 Poecilia reticulata: = 760 mg/L (static)
Ethyl benzene (constituent)	96h LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L (static)
100-41-4	96h LC50 Oncorhynchus mykiss: = 4.2 mg/L (semi-static)
	96h LC50 Pimephales promelas: 7.55 - 11 mg/L (flow-through)
	96h LC50 Lepomis macrochirus: = 32 mg/L (static)
	96h LC50 Pimephales promelas: 9.1 - 15.6 mg/L (static)
	96h LC50 Poecilia reticulata: = 9.6 mg/L (static)
Naphthalene (constituent)	96h LC50 Oncorhynchus mykiss: = 1.6 mg/L (flow-through)
91-20-3	96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L (static)
	96h LC50 Pimephales promelas: = 1.99 mg/L (static)
	96h LC50 Lepomis macrochirus: = 31.0265 mg/L (static)
	96h LC50 Pimephales promelas: 5.74 - 6.44 mg/L (flow-through)
Chemical name	Crustacea
Solvent naphtha, petroleum, heavy aromatic	48h EC50 Daphnia magna: = 0.95 mg/L
64742-94-5	
Xylenes (o-, m-, p- isomers)	48h EC50 water flea: = 3.82 mg/L
1330-20-7	48h LC50 Gammarus lacustris: = 0.6 mg/L
2-Butanone, oxime	48h EC50 Daphnia magna: = 750 mg/L
96-29-7	
Ethyl benzene (constituent)	48h EC50 Daphnia magna: 1.8 - 2.4 mg/L
100 41 4	

Persistence and Degradability	

No information available.

Naphthalene (constituent)

Bioaccumulation

100-41-4

91-20-3

Chemical name	Partition coefficient
Solvent naphtha, petroleum, heavy aromatic	2.9 - 6.1
64742-94-5	
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
1330-20-7	
2-Butanone, oxime	0.65
96-29-7	
	3.2
100-41-4	
	3.6
91-20-3	

13. DISPOSAL CONSIDERATIONS

Waste	treatmen	t methods

Waste Disposal Methods

Contaminated Packaging

Contain and dispose of waste according to local regulations.

Empty containers should be taken to an approved waste handling site for recycling or

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

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	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	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]. UN1210 Printing Ink 3 III
ICAO / IATA / IMDG / IMO UN/ID no Proper Shipping Name Transport hazard class(es) Packing Group	UN1210 Printing Ink 3 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 %
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5	1.0
Ethyl benzene (constituent)	100-41-4	0.1 - < 1	0.1
Naphthalene (constituent)	91-20-3	0.1 - < 1	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:.

Chemical name	CAS No.	Weight-%
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5
Ethyl benzene (constituent)	100-41-4	0.1 - < 1
Naphthalene (constituent)	91-20-3	0.1 - < 1
Cobalt Compounds	Not Available	0.1 - < 1

US State Regulations

Chemical name	Massachusetts
Stoddard solvent 8052-41-3	X
Barium sulfate	X

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7727-43-7	
Titanium Dioxide	X
13463-67-7	^
Xylenes (o-, m-, p- isomers)	X
1330-20-7	^
Ethyl benzene (constituent)	×
	X
100-41-4	
Naphthalene (constituent)	X
91-20-3	
Chemical name	Minnesota
	Right To Know
Stoddard solvent	Х
8052-41-3	
Barium sulfate	X
7727-43-7	
Titanium Dioxide	X
13463-67-7	
Xylenes (o-, m-, p- isomers)	X
1330-20-7	
2-Butanone, oxime	X
96-29-7	
Ethyl benzene (constituent)	x
100-41-4	
Naphthalene (constituent)	x
91-20-3	
Chemical name	New Jersey
Stoddard solvent	X
8052-41-3	
Barium sulfate	Х
7727-43-7	
Titanium Dioxide	X
13463-67-7	
Xylenes (o-, m-, p- isomers)	X
1330-20-7	
Ethyl benzene (constituent)	x
100-41-4	
Naphthalene (constituent)	x
01-20-3	
91-20-3 Cobalt Compounds	
91-20-3 Cobalt Compounds	X
Cobalt Compounds	x
Cobalt Compounds Chemical name	Pennsylvania
Cobalt Compounds Chemical name Stoddard solvent	X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3	Pennsylvania
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate	Pennsylvania
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7	Pennsylvania X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide	Pennsylvania
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7	Pennsylvania X X X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7 Xylenes (o-, m-, p- isomers)	Pennsylvania X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7	Pennsylvania X X X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7 Xylenes (o-, m-, p- isomers)	Pennsylvania X X X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7 Xylenes (o-, m-, p- isomers) 1330-20-7 Ethyl benzene (constituent) 100-41-4	Pennsylvania X X X X X X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7 Xylenes (o-, m-, p- isomers) 1330-20-7 Ethyl benzene (constituent) 100-41-4	Pennsylvania X X X X X X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7 Xylenes (o-, m-, p- isomers) 1330-20-7 Ethyl benzene (constituent) 100-41-4 Naphthalene (constituent)	Pennsylvania X X X X X X X X X X X X X X X X X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7 Xylenes (o., m., p- isomers) 1330-20-7 Ethyl benzene (constituent) 100-41-4 Naphthalene (constituent) 91-20-3	Pennsylvania X X X X X X X X X X X X X X
Cobalt Compounds Chemical name Stoddard solvent 8052-41-3 Barium sulfate 7727-43-7 Titanium Dioxide 13463-67-7 Xylenes (o-, m-, p- isomers) 1330-20-7 Ethyl benzene (constituent) 100-41-4 Naphthalene (constituent)	Pennsylvania X X X X X X X X X X X X X X X X X X X

<u>California Proposition 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

Chemical name	California Proposition 65
Titanium Dioxide	Carcinogen

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Ethyl benzene (constituent)	Carcinogen
Naphthalene (constituent)	Carcinogen

Canada

Chemical name	NPRI - National Pollutant Release Inventory
Stoddard solvent	Part 5 Substance - Volatile Organic Compounds with Additional
8052-41-3	Reporting Requirements
Solvent naphtha, petroleum, heavy aromatic	Part 5 Substance - Volatile Organic Compounds with Additional
64742-94-5	Reporting Requirements
	Part 4 Substance - Criteria Air Contaminants
Xylenes (o-, m-, p- isomers)	Part 1, Group A Substance
1330-20-7	Part 5 Substance - Volatile Organic Compounds with Additional
	Reporting Requirements
	Part 4 Substance - Criteria Air Contaminants
Ethyl benzene (constituent)	Part 1, Group A Substance
100-41-4	Part 4 Substance - Criteria Air Contaminants
Naphthalene (constituent)	Part 1, Group A Substance
91-20-3	Part 4 Substance - Criteria Air Contaminants
Cobalt Compounds	Part 1, Group B Substance

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.

<u>Disclaimer</u>

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