

# SAFETY DATA SHEET

Published Date Nov-29-2023 Revision Date Nov-29-2023 Revision Number 2.9

# **1. IDENTIFICATION**

<u>Product identifier</u> Product code Product name Product category	LWS202CL Light Cyan 202 Series Inkjet 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		

8501 Hedge Lane Terrace Shawnee, KS 66227 Tel: +001-913-422-1888 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

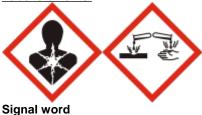
Stockport, England SK4 3EG

Tel: +44 161 442 2111

# **Classification**

Serious eye damage/eye irritation	Category 1 - (H318)
Reproductive toxicity	Category 1B - (H360FD)





Danger

#### Hazard statements

H318 - Causes serious eye damage H360FD - May damage fertility. May damage the unborn child

## **Precautionary Statements**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

#### Hazards not otherwise classified (HNOC)

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical name	CAS No.	Weight-%	Trade secret	Note
Diethylene glycol diethyl ether	112-36-7	60 - 80	*	
Butyrolactone	96-48-0	10 - 30	*	
Tetraglyme	143-24-8	5 - 10	*	

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

# 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.

# **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

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

#### 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	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,				

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	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 Consideration	<b>s</b> 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

<u>Information on basic physical ar</u> Physical state Odor	n <b>d chemical properties</b> Liquid Characteristic	Appearance Odor Threshold	Colored No information available
Property pH	<u>Values</u>	<b>Remarks</b> • Method No data available	-
Melting Point / Freezing Point Boiling Point / Boiling Range	No information available > 149 °C / 300 °F	No data available	
Flash Point Evaporation rate	64 °C / 147 °F	Closed cup (Minimum No data available	)
Flammability Limit in Air Upper flammability limit		No data available	
Lower flammability limit		No data available	
Vapor Pressure Vapor Density		No data available No data available	
Specific Gravity Water Solubility	0.96	No data available	
Solubility in other solvents Partition coefficient: n-octanol/w	ater	No data available No data available	
Autoignition Temperature Hyphen	No information available	No data available No data available	
Kinematic viscosity Dynamic viscosity		No data available No data available	
		NO Gala available	
Explosive Properties Oxidizing Properties	No data available No data available		
Other information			
Photochemically Reactive Weight Per Gallon (Ibs/gal)	No 7.98		
VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
90	91.44	7.18	860.99

# **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

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
Diethylene glycol diethyl ether 112-36-7	= 4970 mg/kg (Rat)
Butyrolactone 96-48-0	= 1540 mg/kg (Rat)
Tetraglyme 143-24-8	= 5140 mg/kg (Rat)

Chemical name	Dermal LD50
Butyrolactone	> 5640 mg/kg (Rabbit)
96-48-0	

Chemical name	Inhalation LC50
Butyrolactone	> 5100 mg/m³ (Rat)4 h
96-48-0	

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
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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	Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components).
Irritation	Specific test data for the substance or mixture is not available.
Corrosivity	Specific test data for the substance or mixture is not available.
Sensitization	Specific test data for the substance or mixture is not available.
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.
Reproductive Effects	Specific test data for the substance or mixture is not available. May damage fertility. May damage the unborn child. (based on components).
STOT - single exposure	Specific test data for the substance or mixture is not available.

STOT - repeated exposure Chronic Toxicity	Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available
Aspiration hazard	Specific test data for the substance or mixture is not available.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA,
	IARC or NTP.

#### 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 documentATEmix (oral)9,967.60mg/kgATEmix (dermal)99,999.00mg/kgATEmix (inhalation-gas)99,999.00mg/lATEmix (inhalation-dust/mist)99,999.00mg/lATEmix (inhalation-vapor)99,999.00mg/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
Butyrolactone	96h EC50 Desmodesmus subspicatus: = 79 mg/L
96-48-0	72h EC50 Desmodesmus subspicatus: = 360 mg/L
Chemical name	Fish

96-48-0	
	96h LC50 Lepomis macrochirus: = 56 mg/L (static)
Chemical name	rish

Chemical name	Crustacea
Butyrolactone	48h EC50 Daphnia magna Straus: > 500 mg/L
96-48-0	

## Persistence and Degradability

No information available.

## **Bioaccumulation**

Chemical name	Partition coefficient
Butyrolactone	-0.566
96-48-0	

# 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<br/>this product. Transportation classifications may vary by container volume and may be<br/>influenced by regional or country variations in regulations. Additional transportation<br/>information can be found in the specific regulations for your mode of transportation. It is the<br/>responsibility of the transportation of the material.DOTNot regulatedICAO / IATA / IMDG / IMONot Regulated

# **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 %
Diethylene glycol diethyl ether	112-36-7	60 - 80	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-%
Diethylene glycol diethyl ether	112-36-7	60 - 80

## US State Regulations

Chemical name	New Jersey
Diethylene glycol diethyl ether	X
112-36-7	
Chemical name	Pennsylvania
Diethylene glycol diethyl ether	X

## California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

## <u>Canada</u>

Chemical name	NPRI - National Pollutant Release Inventory
Diethylene glycol diethyl ether	Part 4 Substance - Criteria Air Contaminants
112-36-7	
Butyrolactone	Part 4 Substance - Criteria Air Contaminants
96-48-0	

# **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-29-2023

#### 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