

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

Product code LWS1302ML
Product name Light Magenta
Product description Lyson® 1302 Series Inkjet Ink

Manufacturer or supplier's details

UNITED STATES
 Nazdar Company
 8501 Hedge Lane Terrace
 Shawnee, KS 66227
 Tel: 1-913-422-1888
 Tel: 1-800-677-4657
 Fax: 1-913-422-2294

UNITED KINGDOM
 Nazdar Limited
 7 Barton Road
 Heaton Mersey Industrial Estate
 Stockport, Cheshire SK4 3EG
 Tel: +44 161 442 2111

Emergency Telephone Number

USA: Chemtrec: 1-800-424-9300
 Outside USA: Chemtrec: 1-703-527-3887

Website: www.nazdar.com
 MSDS Information: 1-913-422-1888 ext 2305
 MSDS Contact: Regulatory Compliance
 email: regcomp@nazdar.com

2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Classification

Xi;R36 - R52/53
 Xi - Irritant

Xi



Most Important Hazards

Irritating to eyes
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Appearance Emergency Overview

Viscous liquid
 Harmful to aquatic organisms. Irritant.

Eyes Skin Inhalation

Moderately irritating to the eyes. Risk of serious damage to eyes. Avoid contact with eyes.
 May cause skin irritation and/or dermatitis.
 Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	CAS-No	Weight %	Classification
Diethylene glycol diethyl ether	203-963-7	112-36-7	80 - 90	Xi;R36
Gamma Butyrolactone	202-509-5	96-48-0	10 - 20	Xn;R22 Xi;R36
Ethylene glycol monobutyl ether acetate	203-933-3	112-07-2	1 - 5	Xn;R20/21
Dibutyltin bis (2-ethylhexyl mercaptoacetate)	234-186-1	10584-98-2	< 0.1	Xn;R22 N;R50-53

For the full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Skin Contact	Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.
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 immediately if irritation develops and persists.
Inhalation	Move to fresh air. If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
Ingestion	If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flammable Properties	No information available
Suitable Extinguishing Media	Foam. Carbon dioxide (CO ₂). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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. Keep away from fire, sparks and heated surfaces. Keep container tightly closed. Cool containers / tanks with water spray. Fire or intense heat may cause violent rupture of packages.
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition. Heat, flames and sparks. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Methods for Cleaning Up	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use sparking tools.
Environmental Precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of labels and material safety data sheets for the working chemicals. Do not take internally. Harmful or fatal if swallowed.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition. Take notice of the directions of use on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Component	European Union	The United Kingdom	France	Spain	Germany
Ethylene glycol monobutyl ether acetate		STEL: 50 ppm TWA: 20 ppm Skin	VME: 2 ppm VME: 13.3 mg/m ³ VLCT: 30 ppm VLCT: 199.8 mg/m ³ Skin	Skin VLA-EC: 333 mg/m ³ VLA-EC: 50 ppm VLA-ED: 133 mg/m ³ VLA-ED: 20 ppm	MAK: 10 ppm MAK: 66 mg/m ³ Skin Peak: 132 mg/m ³ Peak: 20 ppm
Dibutyltin bis (2-ethylhexyl mercaptoacetate)		STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³ Skin	VME: 0.1 mg/m ³ VLCT: 0.2 mg/m ³	Skin VLA-EC: 0.2 mg/m ³ VLA-ED: 0.1 mg/m ³	MAK: 0.1 mg/m ³ Skin Peak: 0.2 mg/m ³

Component	Italy	Portugal	The Netherlands	Finland	Austria
Ethylene glycol monobutyl ether acetate	TWA: 133 mg/m ³ TWA: 20 ppm STEL: 333 mg/m ³ STEL: 50 ppm Skin	TWA: 20 ppm Skin notation	Skin STEL: 333 mg/m ³ TWA: 135 mg/m ³	TWA: 20 ppm TWA: 130 mg/m ³ STEL: 50 ppm STEL: 330 mg/m ³ Skin	Skin STEL: 40 ppm STEL: 270 mg/m ³ MAK: 20 ppm MAK: 133 mg/m ³
Dibutyltin bis (2-ethylhexyl mercaptoacetate)		STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³ Skin			Skin STEL: 0.2 mg/m ³ MAK: 0.1 mg/m ³

Component	Switzerland	Poland	Norway	Ireland	Denmark
Ethylene glycol monobutyl ether acetate	Skin STEL: 80 ppm STEL: 540 mg/m ³ MAK: 20 ppm MAK: 135 mg/m ³	NDSCh: 300 mg/m ³ NDS: 100 mg/m ³	TWA: 65 mg/m ³ TWA: 10 ppm Skin	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ Skin	TWA: 130 mg/m ³ TWA: 20 ppm Skin
Dibutyltin bis (2-ethylhexyl mercaptoacetate)	Skin STEL: 0.2 mg/m ³ MAK: 0.1 mg/m ³		TWA: 0.1 mg/m ³ Skin	Skin	

Occupational exposure controls

Engineering Measures

Use only with adequate ventilation. Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal Protective Equipment

Respiratory Protection

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapour filter.

Eye Protection

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

Skin Protection

Wear protective gloves/clothing. Solvent-resistant apron and boots.

Hand Protection

Nitrile rubber. Neoprene gloves.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

Environmental exposure controls

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous liquid	Physical State	Liquid
Odor	Characteristic	Odor Threshold	No information available
pH	No information available	Autoignition Temperature	No information available
Boiling point/Boiling Range	>149°C / >300°F	Melting Point/Range	No information available
Freezing Point/Range	No information available	Solubility	No information available
Evaporation Rate	No information available	Partition Coefficient (n-octanol/water)	No information available
Vapour Pressure	No information available	Vapour Density	Heavier than air
Flammability (solid, gas)	No information available	Flash Point	71°C / 160°F
Flammability Limits in Air		Method	Tag closed cup
Upper	No information available	Photochemically Reactive	No
Lower	No information available		
Weight Per Gallon (lbs/gal)	7.869	Specific Gravity	0.944
VOC by weight	95.728	VOC by volume	No information available
VOC lbs/gal	7.533	VOC grams/liter	902.633

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Products	Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO ₂). Carbon monoxide.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diethylene glycol diethyl ether	4970 mg/kg (Rat)	6700 µL/kg (Rabbit)	
Gamma Butyrolactone	1540 mg/kg (Rat)		2.68 mg/L (Rat) 4 h
Ethylene glycol monobutyl ether acetate	1600 mg/kg (Rat)	1480 mg/kg (Rabbit)	
Dibutyltin bis (2-ethylhexyl mercaptoacetate)	510 mg/kg (Rat)		

Chronic Toxicity

Sensitisation	No information available
Neurological Effects	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available
Chronic Effects	Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.
Target Organ Effects	Blood, Central nervous system, Eyes, Hematopoietic System, Kidney, Liver, Respiratory system, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. We have no quantitative data concerning the ecological effects of this product. Environmental fate information is derived from consideration of the properties of the ingredients. Should not be released into the environment.

Component	Freshwater Algae	Freshwater Fish	Water Flea
Gamma Butyrolactone	72 Hr EC50 Scenedesmus subspicatus: 360 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 79 mg/L	96 Hr LC50 Leuciscus idus: 220-460 mg/L [static]	48 Hr EC50 Daphnia magna Straus: >500 mg/L
Ethylene glycol monobutyl ether acetate	72 Hr EC50 Scenedesmus subspicatus: >500 mg/L		48 Hr EC50 water flea: 37 mg/L
Dibutyltin bis (2-ethylhexyl mercaptoacetate)	72 Hr EC50 Scenedesmus subspicatus: 0.56 mg/L	96 Hr LC50 Brachydanio rerio: 11.7 mg/L [static]	48 Hr EC50 Daphnia magna Straus: 0.035 mg/L

Persistence and Degradability	No information available
Bioaccumulation	No information available
Mobility in Environmental Media	No information available

Component	log Pow
Gamma Butyrolactone	-0.566
Ethylene glycol monobutyl ether acetate	1.51
Dibutyltin bis (2-ethylhexyl mercaptoacetate)	1.49

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of contents/container in accordance with local regulation.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

RID
Not classified as dangerous in the meaning of transport regulations

ADR
Not classified as dangerous in the meaning of transport regulations

IMDG/IMO
Not classified as dangerous in the meaning of transport regulations

ICAO/IATA
Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Labelling

Symbol(s) Xi - Irritant



R -phrase(s)

R36 - Irritating to eyes

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s)

S 2 - Keep out of the reach of children

S25 - Avoid contact with eyes

S46 - If swallowed, seek medical advice immediately and show this container or label

International Inventories

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

REACH: Substances of Very High Concern (SVHC): Article 57 of Regulation (EC) No 1907/2006

Does NOT contain a listed substance

16. OTHER INFORMATION**Text of R phrases mentioned in Section 3**

R36 - Irritating to eyes

R22 - Harmful if swallowed

R20/21 - Harmful by inhalation and in contact with skin

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date Apr-28-2009**Revision Summary** New MSDS format**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