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1

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

Product identifier

Product code **S263**
Product name **Rubine Red**
Product category **System 2 (S2) Series Gloss Vinyl Screen Ink**

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	Barton Road
Shawnee, KS 66227	Heaton Mersey
Tel: 1-913-422-1888	Stockport, England SK4 3EG
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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Flammable liquids	Category 3 - (H226)

Label elements



Signal Word
Warning

Hazard Statements

H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H226 - Flammable liquid and vapor

Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Hazards not otherwise classified (HNOC)

May be harmful if swallowed. May be harmful in contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Ethylene glycol monopropyl ether	2807-30-9	30 - 60	*	
Cyclohexanone	108-94-1	10 - 30	*	
Ethylene glycol monobutyl ether acetate	112-07-2	5 - 10	*	
Diethylene Glycol Ethyl Ether Acetate	112-15-2	1 - 5	*	
Ethyl alcohol	64-17-5	< 0.5	*	

*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.

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
Cyclohexanone 108-94-1	TWA: 20 ppm STEL: 50 ppm Skin
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm
Ethyl alcohol 64-17-5	STEL: 1000 ppm

Component	OSHA PEL
Cyclohexanone 108-94-1	TWA: 25 ppm TWA: 100 mg/m ³ TWA: 50 ppm TWA: 200 mg/m ³ Skin
Ethyl alcohol 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m ³

Component	Ontario TWAEV
Ethylene glycol monopropyl ether 2807-30-9	TWA: 25 ppm TWA: 110 mg/m ³ Skin
Cyclohexanone 108-94-1	TWA: 20 ppm STEL: 50 ppm Skin
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm
Ethyl alcohol	STEL: 1000 ppm

64-17-5	
Component	Mexico OEL (TWA)
Cyclohexanone 108-94-1	TWA/LMPE-PPT: 50 ppm TWA/LMPE-PPT: 200 mg/m ³ STEL/LMPE-CT: 100 ppm STEL/LMPE-CT: 400 mg/m ³
Ethyl alcohol 64-17-5	TWA/LMPE-PPT: 1000 ppm TWA/LMPE-PPT: 1900 mg/m ³

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	46 °C / 115 °F	Pensky Martens Closed Cup (PMCC)	
Evaporation rate		No data available	
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	1.03		
Water Solubility		No data available	
Solubility in other solvents		No data available	
Partition coefficient: n-octanol/water		No data available	
Autoignition Temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	
Explosive Properties	No data available		
Oxidizing Properties	No data available		

Other Information

Photochemically Reactive No
 Weight Per Gallon (lbs/gal) 8.63

VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
62.76	65.22	5.42	649.49

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 There is no data for this product.
Eye Contact There is no data for this product.
Skin Contact There is no data for this product.
Ingestion There is no data for this product.

Component	Oral LD50
Ethylene glycol monopropyl ether 2807-30-9	3089 mg/kg (Rat)
Cyclohexanone 108-94-1	800 mg/kg (Rat)
Ethylene glycol monobutyl ether acetate 112-07-2	1600 mg/kg (Rat)
Diethylene Glycol Ethyl Ether Acetate 112-15-2	11 g/kg (Rat)
Ethyl alcohol 64-17-5	7060 mg/kg (Rat)

Component	LD50 Dermal
Ethylene glycol monopropyl ether 2807-30-9	960 µL/kg (Rabbit)
Ethylene glycol monobutyl ether acetate 112-07-2	1480 mg/kg (Rabbit)
Diethylene Glycol Ethyl Ether Acetate 112-15-2	15100 µL/kg (Rabbit)

Component	Inhalation LC50
Cyclohexanone 108-94-1	8000 ppm (Rat) 4 h 10.7 mg/L (Rat) 4 h
Ethyl alcohol 64-17-5	124.7 mg/L (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.
Corrosivity There is no data for this product.
Sensitisation There is no data for this product.
Mutagenic Effects There is no data for this product.
Reproductive Effects There is no data for this product.
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.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH
Cyclohexanone 108-94-1	A3
Ethylene glycol monobutyl ether acetate 112-07-2	A3

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 2,655.00 mg/kg
ATEmix (dermal) 2,240.00 mg/kg
ATEmix (inhalation-dust/mist) 6.50 mg/l
ATEmix (inhalation-vapor) 48.00 mg/l

12. ECOLOGICAL INFORMATION**Ecotoxicity**

None known

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

Component	Algae/aquatic plants
Cyclohexanone 108-94-1	96h EC50 Chlorella vulgaris: 20 mg/L
Ethylene glycol monobutyl ether acetate 112-07-2	72h EC50 Desmodium subspicatus: >500 mg/L

Component	Fish
Cyclohexanone 108-94-1	96h LC50 Pimephales promelas: 481 - 578 mg/L [flow-through]
Ethyl alcohol 64-17-5	96h LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static] 96h LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 96h LC50 Pimephales promelas: >100 mg/L [static]

Component	Crustacea
Cyclohexanone 108-94-1	24h EC50 Daphnia magna: 800 mg/L
Ethyl alcohol 64-17-5	48h LC50 Daphnia magna: 9268 - 14221 mg/L 24h EC50 Daphnia magna: 10800 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Component	Partition coefficient
Cyclohexanone 108-94-1	0.86
Ethylene glycol monobutyl ether acetate 112-07-2	1.51
Ethyl alcohol 64-17-5	-0.32

Other adverse effects

No information available

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

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
Hazard Class	3
Packing Group	III

ICAO / IATA / IMDG / IMO

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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
Ethylene glycol monopropyl ether	2807-30-9	30 - 60	1.0
Ethylene glycol monobutyl ether acetate	112-07-2	5 - 10	1.0
Diethylene Glycol Ethyl Ether Acetate	112-15-2	1 - 5	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:

Component	CAS-No	Weight %
Ethylene glycol monopropyl ether	2807-30-9	30 - 60
Ethylene glycol monobutyl ether acetate	112-07-2	5 - 10
Diethylene Glycol Ethyl Ether Acetate	112-15-2	1 - 5

U.S. State Regulations

Component	Massachusetts Right To Know
Cyclohexanone 108-94-1	X
Ethyl alcohol 64-17-5	X

Component	Minnesota Right To Know
Cyclohexanone 108-94-1	X
Ethyl alcohol 64-17-5	X

Component	New Jersey Right To Know
Ethylene glycol monopropyl ether 2807-30-9	X
Cyclohexanone 108-94-1	X
Ethylene glycol monobutyl ether acetate 112-07-2	X
Diethylene Glycol Ethyl Ether Acetate 112-15-2	X
Ethyl alcohol 64-17-5	X

Component	Pennsylvania Right To Know
Ethylene glycol monopropyl ether 2807-30-9	X
Cyclohexanone 108-94-1	X
Ethylene glycol monobutyl ether acetate 112-07-2	X
Diethylene Glycol Ethyl Ether Acetate 112-15-2	X
Ethyl alcohol 64-17-5	X

California Prop. 65

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

Canada

Component	NPRI - National Pollutant Release Inventory
Ethylene glycol monopropyl ether 2807-30-9	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
Cyclohexanone 108-94-1	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
Ethylene glycol monobutyl ether acetate 112-07-2	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
Diethylene Glycol Ethyl Ether Acetate	Part 5, Other Groups and Mixtures Part 4 Substance as set out in

