Material Safety Data Sheet



Prepared in accordance with ISO 11014-1/ANSI standard Z400.1-2004

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1. PRODUCT AND COMPANY IDENTIFICATION

Product code 59204 Product name Bright Red

Product category 59000 Series Enamel Plus Gloss Screen Ink

Manufacturer or supplier's details

UNITED STATES UNITED KINGDOM Nazdar Company Nazdar Limited 7 Barton Road

 Shawnee, KS 66227
 Heaton Mersey Industrial Estate

 Tel: 1-913-422-1888
 Stockport, Cheshire SK4 3EG

 Tel: 1-800-677-4657
 Tel: +44 161 442 2111

Fax: 1-913-422-2294

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

This product is a preparation. Health hazard information is based on its components.

Appearance Colored liquid

Flammable Properties Combustible liquid and vapor.

Emergency Overview Aspiration hazard. Harmful: may cause lung damage if swallowed. Irritant. May cause

drowsiness and dizziness.

Eyes May cause eye irritation.

Skin May cause skin irritation and/or dermatitis.

Inhalation May cause irritation of respiratory tract. Inhalation of high vapour concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion Harmful if swallowed. Potential for aspiration if swallowed. Risk of serious damage to the

lungs (by aspiration).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Stoddard solvent	8052-41-3	10 - 30
Limestone	1317-65-3	10 - 30
Naphtha (petroleum), heavy aromatic	64742-94-5	1 - 5
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 5
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5
Ethyl benzene (contaminant)	100-41-4	< 0.5
Naphthalene (contaminant)	91-20-3	< 0.5

[•] Component names which have the word (contaminant) are constituents contained in Aromatic Hydrocarbon ingredients and are an integral part of the ingredient and cannot be separated. The percentage listed for the contaminant is as contained in the Hydrocarbon ingredient. (Example: 100% Hydrocarbon, 10% Contaminant A, 3% Contaminant B)

4. FIRST AID MEASURES

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.

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.

Inhalation 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 Combustible liquid and vapor.

Suitable Extinguishing Media Foam. Carbon dioxide (CO2). 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. 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. 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 UpContain 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. Do not take internally. Harmful or fatal if swallowed. Take notice of the

directions of use on the label.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Ontario TWAEV	Mexico OEL (TWA)
Stoddard solvent	TWA: 100 ppm	TWA: 100 ppm TWA: 525 mg/m ³ TWA: 500 ppm	20000 mg/m ³	TWA: 525 mg/m ³	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 523 mg/m ³
		TWA: 2900 mg/m ³			STEL/LMPE-CT: 200 ppm STEL/LMPE-CT: 1050 mg/m³

11.		T-144 45 / 2// / 1			TIMA II MADE DOT 40
Limestone		TWA: 15 mg/m³ (total			TWA/LMPE-PPT: 10
		dust)			mg/m³
		TWA: 5 mg/m ³			STEL/LMPE-CT: 20 mg/m ³
		(respirable fraction)			
Solvent naphtha				TWA: 525 mg/m ³	
(petroleum), medium					
aliphatic					
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm	TWA: 100 ppm		TWA: 100 ppm	TWA/LMPE-PPT: 100 ppm
	STEL: 150 ppm	TWA: 435 mg/m ³		STEL: 150 ppm	TWA/LMPE-PPT: 435
	• •	STEL: 150 ppm			mg/m³
		STEL: 655 mg/m ³			STEL/LMPE-CT: 150 ppm
]			STEL/LMPE-CT: 655
					mg/m³
Ethyl benzene (contaminant)	TWA: 20 ppm	TWA: 100 ppm	800 ppm	TWA: 100 ppm	TWA/LMPE-PPT: 100 ppm
, ,		TWA: 435 mg/m ³	(10% LEL)	STEL: 125 ppm	TWA/LMPE-PPT: 435
		STEL: 125 ppm	,		mg/m³
		STEL: 545 mg/m ³			STEL/LMPE-CT: 125 ppm
					STEL/LMPE-CT: 545
					mg/m³
Naphthalene (contaminant)	TWA: 10 ppm	TWA: 10 ppm	250 ppm	TWA: 10 ppm	TWA/LMPE-PPT: 10 ppm
	STEL: 15 ppm	TWA: 50 mg/m ³		STEL: 15 ppm	TWA/LMPE-PPT: 50
	Skin	STEL: 15 ppm		Skin	mg/m³
		STEL: 75 mg/m ³			STEL/LMPE-CT: 15 ppm
					STEL/LMPE-CT: 75 mg/m ³

Use ventilation adequate to keep exposures below recommended exposure limits. See **Engineering Measures** 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.

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

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before

eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colored liquid **Appearance Physical State** Liquid **Odor Threshold** Odor Characteristic No information available

No information available **Autoignition Temperature** No information available >149 °C / >300 °F No information available **Boiling point/Boiling Range** Melting Point/Range Freezing Point/Range No information available Solubility No information available

Evaporation Rate No information available **Partition Coefficient** No information available (n-octanol/water)

Vapour Pressure No information available Vapour Density Heavier than air Flammability (solid, gas) No information available

Flammability Limits in Air **Upper** No information available

Setaflash closed cup

Method

Lower No information available **Flash Point** 46 °C / 115 °F **Photochemically Reactive** No

Weight Per Gallon (lbs/gal) **Specific Gravity** 1.06 8.84

VOC by weight % VOC by volume % No information available 33.71 356.96

VOC lbs/gal (less water) 2.98 VOC grams/liter (less water)

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

(CO2). Carbon monoxide.

Possibility of Hazardous Reactions None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Naphtha (petroleum), heavy aromatic	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>590 mg/m³ (Rat)4 h	
Solvent naphtha (petroleum), medium aliphatic	>5000 mg/kg (Rat)	3000 mg/kg (Rabbit)	>5.28 mg/L (Rat)4 h	
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	>1700 mg/kg (Rabbit)	5000 ppm (Rat)4 h 47635 mg/L (Rat)4 h	
Ethyl benzene (contaminant)	3500 mg/kg (Rat)	15354 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h	
Naphthalene (contaminant)	490 mg/kg (Rat)	>2500 mg/kg (Rat) >20 g/kg (Rabbit)	>340 mg/m³(Rat)1 h	

Chronic Toxicity

Component	ACGIH	IARC	NTP	OSHA
Ethyl benzene (contaminant)	А3	Group 2B		X
Naphthalene (contaminant)		Group 2B	Reasonably Anticipated	Х

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

OSHA: (Occupational Safety & Health Administration)

A3 - Animal Carcinogen Group 2B - Possibly Carcinogenic to Humans

Reasonably Anticipated to be a Human Carcinogen

X - Present

SensitisationNo information availableMutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental hazardNo information availableTeratogenicityNo 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 Central nervous system, Eyes, Kidney, Respiratory system, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

We have no quantitative data concerning the ecological effects of this product. Should not be released into the environment.

	C	Component	Algae	Fish	Water Flea
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	Υ	1	
Naphtha (petroleum), heavy		96h LC50 Lepomis macrochirus:	
aromatic		1740 mg/L [static]	
		96h LC50 Pimephales promelas: 19	
		mg/L [static]	
		96h LC50 Pimephales promelas: 41	
		mg/L	
		96h LC50 Pimephales promelas: 45	
		mg/L [flow-through]	
Solvent naphtha (petroleum),	96h EC50 Pseudokirchneriella	96h LC50 Pimephales promelas:	48h EC50 Daphnia magna: >100 mg/L
medium aliphatic	subcapitata: 450 mg/L	800 mg/L [static]	, , ,
Xylenes (o-, m-, p- isomers)	·	96h LC50 Lepomis macrochirus:	48h LC50 Gammarus lacustris: 0.6 mg/L
γιγιοπου (υ ; ; μ πουποιο)		13.1 - 16.5 mg/L [flow-through]	48h EC50 water flea: 3.82 mg/L
		96h LC50 Oncorhynchus mykiss:	1011 2000 Hater Hoar 6.02 Hig/2
		13.5 - 17.3 mg/L	
		96h LC50 Oncorhynchus mykiss:	
		2.661 - 4.093 mg/L [static]	
		96h LC50 Pimephales promelas:	
		23.53 - 29.97 mg/L [static]	
		96h LC50 Poecilia reticulata: 30.26 -	
		40.75 mg/L [static]	
		96h LC50 Lepomis macrochirus:	
		7.711 - 9.591 mg/L [static]	
		96h LC50 Pimephales promelas:	
		13.4 mg/L [flow-through]	
		96h LC50 Lepomis macrochirus: 19	
		mg/L	
		96h LC50 Cyprinus carpio: 780	
		mg/L [semi-static]	
		96h LC50 Cyprinus carpio: >780	
	001 5050 5	mg/L	401 F0F0 B 1 : 4 0 0 4
Ethyl benzene (contaminant)	96h EC50 Pseudokirchneriella	96h LC50 Oncorhynchus mykiss:	48h EC50 Daphnia magna: 1.8 - 2.4
	subcapitata: 1.7 - 7.6 mg/L [static]	11.0 - 18.0 mg/L [static]	mg/L
	72h EC50 Pseudokirchneriella	96h LC50 Pimephales promelas:	
	subcapitata: 2.6 - 11.3 mg/L [static]	7.55 - 11 mg/L [flow-through]	
	72h EC50 Pseudokirchneriella	96h LC50 Pimephales promelas:	
	subcapitata: 4.6 mg/L	9.1 - 15.6 mg/L [static]	
	96h EC50 Pseudokirchneriella	96h LC50 Lepomis macrochirus: 32	
	subcapitata: >438 mg/L	mg/L [static]	
		96h LC50 Oncorhynchus mykiss:	
		4.2 mg/L [semi-static]	
		96h LC50 Poecilia reticulata: 9.6	
		mg/L [static]	
Naphthalene (contaminant)	72h EC50 Skeletonema costatum:	96h LC50 Oncorhynchus mykiss:	48h EC50 Daphnia magna: 1.09 - 3.4
,	0.4 mg/L	0.91 - 2.82 mg/L [static]	mg/L [static]
	_	96h LC50 Pimephales promelas:	48h EC50 Daphnia magna: 1.96 mg/L
		5.74 - 6.44 mg/L [flow-through]	[Flow through]
		96h LC50 Oncorhynchus mykiss:	48h LC50 Daphnia magna: 2.16 mg/L
		1.6 mg/L [flow-through]	
		96h LC50 Pimephales promelas:	
		1.99 mg/L [static]	
		96h LC50 Lepomis macrochirus:	
		31.0265 mg/L [static]	
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Persistence and Degradability
Bioaccumulation
Mobility in Environmental Media
No information available
No information available

Component	log Pow
Naphtha (petroleum), heavy aromatic	4.5
Xylenes (o-, m-, p- isomers)	2.96
Ethyl benzene (contaminant)	3.118
Naphthalene (contaminant)	3.3

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

DOT

UN1210, Printing Ink, 3, III

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].

ICAO/IATA

UN1210, Printing Ink, 3, III

IMDG/IMO

UN1210, Printing Ink, 3, III

15. REGULATORY INFORMATION

International Inventories

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

U.S. Federal Regulations

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Ethyl benzene (contaminant)	100-41-4	< 0.5	0.1
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5	1.0
Naphthalene (contaminant)	91-20-3	< 0.5	0.1

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

Component	CAS-No	Weight %
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5

U.S. State Regulations

Component	Massachusetts Right To Know	Minnesota Right To Know	New Jersey Right To Know	Pennsylvania Right To Know
Stoddard solvent	X	Х	X	Х
Limestone	Х	X	Х	Х
Solvent naphtha (petroleum), medium aliphatic	Not Listed	Not Listed	X	Not Listed
Xylenes (o-, m-, p- isomers)	X	X	X	Х
Ethyl benzene (contaminant)	X	X	X	X
Naphthalene (contaminant)	X	Х	Х	Х

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer and / or WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm

Component	CAS-No	Weight %
Ethyl benzene (contaminant)	100-41-4	< 0.5
Naphthalene (contaminant)	91-20-3	< 0.5

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

Component	WHMIS Classifications of Components
Stoddard solvent	B3,D2B

Limestone	D2A
Solvent naphtha (petroleum), medium aliphatic	B3
Xylenes (o-, m-, p- isomers)	B2,D2A,D2B
Ethyl benzene (contaminant)	B2,D2A,D2B
Naphthalene (contaminant)	B4,D2A

Component	NPRI - National Pollutant Release Inventory
Stoddard solvent	Part 5 Substance Part 5, Other Groups and Mixtures
Naphtha (petroleum), heavy aromatic	Part 5 Substance Part 5, Other Groups and Mixtures
Solvent naphtha (petroleum), medium aliphatic	Part 5 Substance Part 5, Other Groups and Mixtures
Xylenes (o-, m-, p- isomers)	Part 1, Group 1 Substance Part 5 Substance Part 5, Isomer Groups
Ethyl benzene (contaminant)	Part 4 Substance Part 1, Group 1 Substance
Naphthalene (contaminant)	Part 1, Group 1 Substance

Regulation (EC) No. 1907/2006 (REACH), Article 57

None known

PPE HMIS: Health **Flammability** Reactivity 1 * 2 0 Χ

16. OTHER INFORMATION

May-07-2012 **Revision Date**

Revision Note 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 MSDS