

# **SAFETY DATA SHEET**

Published DateRevision DateRevision NumberAug-16-2018Aug-16-20182

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

Product identifier

Product code 7219
Product name Fire Red

Product category 7200 Series SV Lacquer 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
Shawnee, KS 66227
Burton Road
Heaton Mersey

Tel: +001-913-422-1888 Stockport, England SK4 3EG
Tel: +001-800-677-4657 Tel: +44 161 442 2111

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 Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1B - (H317)
Flammable liquids	Category 3 - (H226)

#### **Label elements**





Signal Word Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H226 - Flammable liquid and vapor

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#### **Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P233 - Keep container tightly closed

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

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

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

#### Hazards not otherwise classified (HNOC)

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Ethylene glycol monopropyl ether	2807-30-9	10 - 30	*	
2-Butoxyethanol	111-76-2	10 - 30	*	
Resin	Trade Secret	5 - 10	*	
Isopropyl alcohol	67-63-0	5 - 10	*	
Toluene	108-88-3	1 - 5	*	

<sup>\*</sup>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.

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#### **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
	TWA: 20 ppm
111-76-2	
Isopropyl alcohol	TWA: 200 ppm
67-63-0	STEL: 400 ppm
Toluene	TWA: 20 ppm
108-88-3	

Component	OSHA PEL
2-Butoxyethanol	TWA: 50 ppm
111-76-2	TWA: 240 mg/m <sup>3</sup>
	Skin
Isopropyl alcohol	TWA: 400 ppm
67-63-0	TWA: 980 mg/m <sup>3</sup>
Toluene	TWA: 200 ppm
108-88-3	Ceiling: 300 ppm

Component	OSHA PEL (vacated)
2-Butoxyethanol	TWA: 25 ppm
111-76-2	TWA: 120 mg/m <sup>3</sup>

	Skin
Isopropyl alcohol	TWA: 400 ppm
	TWA: 980 mg/m <sup>3</sup>
	STEL: 500 ppm
	STEL: 1225 mg/m <sup>3</sup>
Toluene	TWA: 100 ppm
108-88-3	TWA: 375 mg/m <sup>3</sup>
	STEL: 150 ppm
	STEL: 560 mg/m <sup>3</sup>

Component	Ontario TWAEV
Ethylene glycol monopropyl ether	TWA: 25 ppm
2807-30-9	TWA: 110 mg/m³ Skin
2-Butoxyethanol 111-76-2	TWA: 20 ppm
Isopropyl alcohol	TWA: 200 ppm
67-63-0	STEL: 400 ppm
Toluene	TWA: 20 ppm
108-88-3	

Component	Mexico OEL (TWA)
2-Butoxyethanol	TWA/VLE-PPT: 26 ppm
111-76-2	TWA/VLE-PPT: 120 mg/m³
	STEL/PPT-CT: 75 ppm
	STEL/PPT-CT: 360 mg/m <sup>3</sup>
Isopropyl alcohol	TWA/VLE-PPT: 400 ppm
67-63-0	TWA/VLE-PPT: 980 mg/m³
	STEL/PPT-CT: 500 ppm
	STEL/PPT-CT: 1225 mg/m <sup>3</sup>
Toluene	TWA/VLE-PPT: 50 ppm
108-88-3	TWA/VLE-PPT: 188 mg/m <sup>3</sup>

### 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

No data available

PropertyValuesRemarks • MethodpHNo data available

Melting Point / Freezing Point Boiling Point / Boiling Range > 149 °C / 300 °F

Flash Point 32 °C / 90 °F Tag closed cup Evaporation rate No data available

Evaporation rate
Flammability Limit in Air

Upper flammability limit
Lower flammability limit
No data available
No data available
Vapor Pressure
No data available
Vapor Density
No data available

Specific Gravity 1.05

Water Solubility

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition Temperature

Decomposition temperature

No data available

**Explosive Properties**No data available **Oxidizing Properties**No data available

Other Information

Photochemically Reactive No Weight Per Gallon (lbs/gal) 8.72

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
52.64	53.72	4.6	550.67

# 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

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Component Oral LD50

Ethylene glycol monopropyl ether 2807-30-9	= 3089 mg/kg(Rat)
2-Butoxyethanol 111-76-2	= 470 mg/kg(Rat)
Isopropyl alcohol 67-63-0	= 1870 mg/kg(Rat)
Toluene 108-88-3	= 2600 mg/kg(Rat)

Component	Dermal LD50
Ethylene glycol monopropyl ether	= 870 mg/kg (Rabbit)
2807-30-9	
2-Butoxyethanol	= 99 mg/kg(Rabbit)
111-76-2	
Isopropyl alcohol	= 4059 mg/kg ( Rabbit )
67-63-0	
Toluene	= 12000 mg/kg ( Rabbit )
108-88-3	

Component	Inhalation LC50
1 , 0, 1 ,	= 1530 ppm (Rat) 7 h
2807-30-9 2-Butoxyethanol	= 450 ppm (Rat) 4 h
	= 486 ppm (Rat) 4 h
Isopropyl alcohol	= 72600 mg/m³ (Rat) 4 h
67-63-0	
Toluene	= 12.5 mg/L (Rat) 4 h
108-88-3	

#### Information on toxicological effects

**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 Specific test data for the substance or mixture is not available. Causes skin irritation (pain,

redness and swelling). (based on components).

**Eye damage/irritation** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components).

IrritationSpecific test data for the substance or mixture is not available.CorrosivitySpecific test data for the substance or mixture is not available.

Sensitization Specific test data for the substance or mixture is not available. May cause an allergic skin

reaction. (based on components).

Mutagenic EffectsSpecific test data for the substance or mixture is not available.Carcinogenic effectsSpecific test data for the substance or mixture is not available.Reproductive EffectsSpecific test data for the substance or mixture is not available.STOT - single exposureSpecific test data for the substance or mixture is not available.STOT - repeated exposureSpecific test data for the substance or mixture is not available.Chronic ToxicitySpecific test data for the substance or mixture is not available.Aspiration hazardSpecific test data for the substance or mixture is not available.

**Carcinogenicity**The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH
2-Butoxyethanol	A3
111-76-2	

#### 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)** 3,602.00 mg/kg

ATEmix (dermal) 2,571.00 mg/kg
ATEmix (inhalation-dust/mist) 11.50 mg/l
ATEmix (inhalation-vapor) 84.00 mg/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

Component	Algae/aquatic plants
Isopropyl alcohol	72h EC50 Desmodesmus subspicatus: > 1000 mg/L
67-63-0	96h EC50 Desmodesmus subspicatus: > 1000 mg/L
Toluene	96h EC50 Pseudokirchneriella subcapitata: > 433 mg/L
108-88-3	72h EC50 Pseudokirchneriella subcapitata: = 12.5 mg/L static

Component	Fish
2-Butoxyethanol	96h LC50 Lepomis macrochirus: = 2950 mg/L
111-76-2	96h LC50 Lepomis macrochirus: = 1490 mg/L (static)
Isopropyl alcohol	96h LC50 Pimephales promelas: = 9640 mg/L (flow-through)
67-63-0	96h LC50 Lepomis macrochirus: > 1400000 µg/L
	96h LC50 Pimephales promelas: = 11130 mg/L (static)
Toluene	96h LC50 Pimephales promelas: 15.22 - 19.05 mg/L
108-88-3	(flow-through)
	96h LC50 Pimephales promelas: = 12.6 mg/L (static)
	96h LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L (flow-through)
	96h LC50 Oncorhynchus mykiss: = 5.8 mg/L (semi-static)
	96h LC50 Poecilia reticulata: 50.87 - 70.34 mg/L (static)
	96h LC50 Poecilia reticulata: = 28.2 mg/L (semi-static)
	96h LC50 Oryzias latipes: = 54 mg/L (static)
	96h LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L (static)
	96h LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L (static)

Component	Crustacea
1 ,	48h EC50 Daphnia magna: > 1000 mg/L
111-76-2	
Isopropyl alcohol	48h EC50 Daphnia magna: = 13299 mg/L
67-63-0	
Toluene	48h EC50 Daphnia magna: 5.46 - 9.83 mg/L Static
108-88-3	48h EC50 Daphnia magna: = 11.5 mg/L

#### Persistence and Degradability

No information available.

# **Bioaccumulation**

No information available

Component	Partition coefficient
2-Butoxyethanol 111-76-2	0.81
Isopropyl alcohol 67-63-0	0.05
Toluene 108-88-3	2.7

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Waste Disposal Methods Contain and dispose of waste according to local regulations.

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#### **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

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. UN1210
Proper Shipping Name Printing Ink

Hazard Class 3
Packing Group III

ICAO / IATA / IMDG / IMO

UN/ID no. UN1210
Proper Shipping Name UN1210
Printing Ink

Hazard Class 3
Packing Group III

# 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	10 - 30	1.0
2-Butoxyethanol	111-76-2	10 - 30	1.0
Isopropyl alcohol	67-63-0	5 - 10	1.0
Toluene	108-88-3	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	10 - 30
2-Butoxyethanol	111-76-2	10 - 30
Toluene	108-88-3	1 - 5
Xylenes (o-, m-, p- isomers)	1330-20-7	< 0.5

# U.S. State Regulations

Component	Massachusetts Right To Know
2-Butoxyethanol	X
111-76-2	
Isopropyl alcohol	X

\_\_\_\_\_

67-63-0	
oluene	X
108-88-3	^
100 00 0	<u> </u>
Component	Minnesota
	Right To Know
2-Butoxyethanol	Χ
111-76-2	
sopropyl alcohol	Χ
67-63-0	
Toluene	X
108-88-3	
	I
Component	New Jersey
	Right To Know
Ethylene glycol monopropyl ether	X
2807-30-9	
2-Butoxyethanol	X
111-76-2	
sopropyl alcohol	X
67-63-0	
Toluene	X
108-88-3	
2	In
Component	Pennsylvania Right To Know
Ethylene glycol monopropyl ether	
zmylene grycor monopropyr etner 2807-30-9	X
2-Butoxyethanol	X
	ľ
111-76-2	N/
sopropyl alcohol	Х
67-63-0	N/
Toluene 108-88-3	X
100-00-3	L
California Prop. 65	
This product contains chemical(s) known to the !	State of California to cause cancer and/or to cause birth defects or other
eproductive harm	State of Samornia to saudo sariour analor to saudo birtir acrosts of other
Component	California Bran. 65
	California Prop. 65
Toluene	Developmental
Canada	
<del>Janaaa</del>	
Component	NPRI - National Pollutant Release Inventory
Ethylene glycol monopropyl ether	Part 5, Other Groups and Mixtures; Part 4 Substance
2807-30-9	. a.c. o, o a.c. o. o apo ana mixtaroo, i are i o abotano
2-Butoxyethanol	Part 5, Individual Substances; Part 4 Substance
111-76-2	i art o, marriada odbotanoco, i art + odbotanoc
111102	

Component	NPRI - National Pollutant Release Inventory
Ethylene glycol monopropyl ether 2807-30-9	Part 5, Other Groups and Mixtures; Part 4 Substance
2-Butoxyethanol 111-76-2	Part 5, Individual Substances; Part 4 Substance
Isopropyl alcohol 67-63-0	Part 5, Individual Substances; Part 4 Substance
Toluene 108-88-3	Part 5, Individual Substances; Part 4 Substance

# 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.

16. OTHER INFORMATION				
HMIS:	Health	Flammability	Reactivity	Personal Protection

Key or legend to abbreviations and acronyms used in the safety data sheet

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#### 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

NTP: (National Toxicity Program)

Known - Known Carcinogen
Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)

X - Present

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# **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**