

# SAFETY DATA SHEET

**Print Date** Jun-01-2015 **Revision Date** May-31-2015 **Revision Number** 1

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

Product identifier	
Product code	RE192
Product name	Retarder
Product category	Ink Product

Other means of identification **Synonyms** 

Recommended use of the chemical and restrictions on use Recommended use Printing operations

None

#### Details of the supplier of the safety data sheet

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 www.nazdar.com

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

# 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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Signal Word None

# Hazards not otherwise classified (HNOC)

No information available.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

Component	CAS-No	Weight %	Trade Secret	Note
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1,2-Propylene glycol	57-55-6	30 - 60	*	

\*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**

Component	Ontario TWAEV
1,2-Propylene glycol	TWA: 10 mg/m <sup>3</sup> (aerosol only)
57-55-6	TWA: 50 ppm (aerosol and vapor)
	TWA: 155 mg/m <sup>3</sup> (aerosol and vapor)

#### 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 Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear **Eye/face Protection** 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. Handle in accordance with good industrial hygiene and safety practice. Wash hands before **General Hygiene Considerations** 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 an	d chemical properties		
Physical State	Liquid	Appearance	Water-white
Odor	Characteristic	Odor Threshold	No information available
Property_	Values_	Remarks • Method	
pH	7-9	No data available	
Melting point/freezing point		No data available	
Boiling point/Boiling Range	> 149 °C / 300 °F		
Flash Point	> 94 °C / > 201 °F	Tag closed cup	

Volatile by weight (including Water) 100	Water by weight 50		
VOC by weight % (less water) 50	VOC by volume % (less water) No information available	VOC lbs/gal (less water) 4.32	VOC grams/liter (less water) 518.25
Photochemically Reactive Weight Per Gallon (Ibs/gal)	No 8.49		
Other Information			
Explosive Properties Oxidizing Properties	No data available No data available		
Kinematic viscosity Dynamic viscosity		No data available	
Decomposition temperature		No data available No data available	
Autoignition Temperature		No data available	
Partition coefficient: n-octano	l/water	No data available	
Water Solubility Solubility in other solvents		No data available No data available	
Specific Gravity	1.02		
Vapor Density		No data available	
Vapor Pressure		No data available	
Upper flammability limit Lower flammability limit		No data available No data available	
Flammability Limit in Air			
Evaporation rate		No data available	

# **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
1,2-Propylene glycol 57-55-6	20000 mg/kg (Rat)

Component	LD50 Dermal
1,2-Propylene glycol	20800 mg/kg (Rabbit)
57-55-6	

#### 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	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)40,000.00mg/kgATEmix (dermal)41,600.00mg/kg

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity None known

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

96h EC50 Pseudokirchneriella subcapitata: 19000 mg/L Fish
Fish
96h LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static] 96h LC50 Pimephales promelas: 51400 mg/L [static] 96h LC50 Oncorhynchus mykiss: 51600 mg/L [static] 96h LC50 Pimephales promelas: 710 mg/L

Component	Crustacea	
1,2-Propylene glycol	48h EC50 Daphnia magna: >1000 mg/L [static]	
57-55-6	24h EC50 Daphnia magna: >10000 mg/L	

# Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available.

# 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	Not regulated	
Proper Shipping Name	Printing Ink Related Material	
ICAO / IATA / IMDG / IMO	Not Regulated	

# Proper Shipping Name

**15. REGULATORY INFORMATION** 

#### International Inventories

All components are listed on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

Printing Ink Related Material

# U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

# U.S. State Regulations

Component	Minnesota Right To Know
1,2-Propylene glycol 57-55-6	Х
Component	New Jersey Right To Know
1,2-Propylene glycol 57-55-6	X

Component	Pennsylvania Right To Know
1,2-Propylene glycol 57-55-6	Х
07-00-00	

# California Prop. 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>

Component	NPRI - National Pollutant Release Inventory
1,2-Propylene glycol	Part 4 Substance as set out in Section 65 of the List of Toxic

#### RE192 - Retarder

57-55-6			Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999	
	16	. OTHER INFORMATI	ON	
HMIS:	Health 1 *	Flammability 1	<b>Reactivity</b> 0	Personal Protection X
Key or legend to ab	breviations and acrony	ms used in the safety d	ata sheet	
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTITWATWA (time-weighted average)STELSTEL (Short Term Exposure LimitCeilingMaximum limit value				
A1 - Known Human Carcir A2 - Suspected Human Ca A3 - Animal Carcinogen IARC: (International Age Group 1 - Carcinogenic to Group 2A - Probably Carci Group 2B - Possibly Carci NTP: (National Toxicity F Known - Known Carcinoge Reasonably Anticipated to	arcinogen ency for Research on Cancer) Humans inogenic to Humans nogenic to Humans Program) en			

X - Present

# Revision Date

May-31-2015

# **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