

# **SAFETY DATA SHEET**

Published Date May-15-2019

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

Product identifier	
Product code	43366
Product name	Violet
Product category	4300 Series UV Screen Ink

None

Other means of identification Synonyms

. . . .

Recommended use of the chemical and restrictions on useRecommended usePrinting operations

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

UNITED STATES Nazdar Company 8501 Hedge Lane Terrace Shawnee, KS 66227 Tel: +001-913-422-1888 Tel: +001-800-677-4657 Fax: +001-913-422-2294 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: +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 1A - (H317)
Reproductive toxicity	Category 1B - (H360FD)
Chronic aquatic toxicity	Category 3 - (H412)

#### Label elements



Signal Word Danger

Hazard Statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360FD - May damage fertility. May damage the unborn child

H412 - Harmful to aquatic life with long lasting effects

#### **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

P202 - Do not handle until all safety precautions have been read and understood

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P273 - Avoid release to the environment

### Hazards not otherwise classified (HNOC)

Harmful to aquatic life.

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

#### <u>Mixture</u>

Component	CAS-No	Weight %	Trade Secret	Note
Acrylated Monomer	Trade Secret	10 - 30	*	
Acrylated Monomer	Trade Secret	10 - 30	*	
Glycol Ether Acrylate	Trade Secret	5 - 10	*	
Silicon dioxide, amorphous	7631-86-9	1 - 5	*	
Photoinitiator	Trade Secret	1 - 5	*	
Photoinitiator	Trade Secret	1 - 5	*	
Photoinitiator	Trade Secret	1 - 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 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. Hazardous polymerization may take place during a fire due to heat. Closed containers could violently rupture.

### **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

StorageKeep at temperatures between 18°-32°C (65°-90°F). Keep containers tightly closed in a dry,<br/>cool and well-ventilated place. Keep container closed when not in use. Keep out of the<br/>reach of children. Protect from direct sunlight. Keep away from open flames, hot surfaces<br/>and sources of ignition.

**Incompatible Products** 

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure limits

Component	OSHA PEL (vacated)
Silicon dioxide, amorphous	TWA: 6 mg/m <sup>3</sup>
7631-86-9	-

### 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.
Hand Protection	Chemical resistant protective gloves. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.
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. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.
General Hygiene Consideration	Is 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	Sweet Mild Acrylic	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	> 94 °C / > 201 °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	
	1.15		
Specific Gravity	1.15	No data available	
Water Solubility			
Solubility in other solvents		No data available	
Partition coefficient: n-octanol/wate	er	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 (Ibs/gal)	9.55

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
0-1	0-1	0-1	5.04

# **10. STABILITY AND REACTIVITY**

### **Reactivity**

No information available.

### Chemical stability

Stable under normal conditions.

# Possibility of Hazardous Reactions

None under normal processing. Do not store for longer periods at temperatures above 93°C (200°F).

#### Conditions to avoid

Temperatures above 93 °C / 200 °F. Protect from direct sunlight. 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	Specific test data for the substance or mixture is not available.
Eye Contact	Specific test data for the substance or mixture is not available.
Skin Contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component	Oral LD50
Acrylated Monomer	= 5 g/kg (Rat)
Acrylated Monomer	= 5190 mg/kg (Rat)
Glycol Ether Acrylate	= 4660 µL/kg ( Rat )
Silicon dioxide, amorphous 7631-86-9	= 7900 mg/kg (Rat)
Photoinitiator	= 1694 mg/kg (Rat)
Component	Dermal LD50
Acrylated Monomer	= 3600 mg/kg (Rabbit)
Acrylated Monomer	= 5000 mg/kg (Rabbit)
Silicon dioxide, amorphous 7631-86-9	> 2000 mg/kg (Rabbit)
Component	Inhalation LC50
Silicon dioxide, amorphous 7631-86-9	> 2.2 mg/L (Rat)1 h

#### 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).
Irritation	Specific test data for the substance or mixture is not available.
Corrosivity	Specific 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 Effects	Specific test data for the substance or mixture is not available.
Carcinogenic effects	Specific test data for the substance or mixture is not available.
Reproductive Effects	Specific test data for the substance or mixture is not available. May damage fertility. May damage the unborn child. (based on components).
STOT - single exposure	Specific test data for the substance or mixture is not available.
STOT - repeated exposure	Specific test data for the substance or mixture is not available.
Chronic Toxicity	Specific test data for the substance or mixture is not available
Aspiration hazard	Specific 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	OSHA
Acrylated Monomer	Х

### 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<br/>ATEmix (oral)38,605.00 mg/kg mg/l

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on components).

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

Component	Algae/aquatic plants
Silicon dioxide, amorphous	72h EC50 Pseudokirchneriella subcapitata: = 440 mg/L
7631-86-9	
Component	Fish
Silicon dioxide, amorphous	96h LC50 Brachydanio rerio: = 5000 mg/L (static)
7631-86-9	
Component	Crustacea
Silicon dioxide, amorphous	48h EC50 Ceriodaphnia dubia: = 7600 mg/L
7631-86-9	

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

# 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<br/>or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.ComponentCAS-NoWeight %SARA 313 - Threshold

			Values	
Glycol Ether Acrylate	Trade Secret	5 - 10	1.0	]

The above glycol ether acrylate is considered a reactive chemical in ultraviolet curable inks. Once initiated by a high dose of ultraviolet light, this glycol ether acrylate rapidly polymerizes (i.e. hardens) and becomes part of the ink film. The polymerization process of UV curable inks is measured in milliseconds.

### 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 %
Glycol Ether Acrylate	Trade Secret	5 - 10
Xylenes (o-, m-, p- isomers)	1330-20-7	< 0.5

# U.S. State Regulations

	Massachusetts Right To Know
Silicon dioxide, amorphous 7631-86-9	X

	Minnesota Right To Know
Acrylated Monomer	X
Acrylated Monomer	X
Silicon dioxide, amorphous 7631-86-9	X

Component	New Jersey
	Right To Know
Glycol Ether Acrylate	X

	Pennsylvania Right To Know
Glycol Ether Acrylate	X
Silicon dioxide, amorphous 7631-86-9	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

No information available

16. OTHER INFORMATION				
HMIS:	Health 2	Flammability 1	Reactivity 1	Personal Protection X
Key or legend to abl	previations and acrony	ms used in the safety d	ata sheet	
Legend - Section 8: E	XPOSURE CONTROLS/PE	RSONAL PROTECTION		
TWA	TWA (time-	weighted average)		
STEL	STEL (Shor	t Term Exposure Limit)		
Ceiling	Maximum li	mit value		
A1 - Known Human Carcin A2 - Suspected Human Ca A3 - Animal Carcinogen IARC: (International Age Group 1 - Carcinogenic to I Group 2A - Probably Carcin Group 2B - Possibly Carcir Group 2B - Possibly Carcir MTP: (National Toxicity P Known - Known Carcinoge Reasonably Anticipated to	rcinogen ncy for Research on Cancer) Humans nogenic to Humans nogenic to Humans rogram) n			
Revision Date	May-15-201	9		

# 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.

### **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