

SAFETY DATA SHEET

Published DateRevision DateRevision NumberSep-24-2018Sep-07-20182

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

Product identifier

Product code NFX39

Product name Hi Sparkle Glitter Black

Product category UV Special Effect 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
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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 1A - (H317)
Reproductive toxicity	Category 1B - (H360FD)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
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

H373 - May cause damage to organs through prolonged or repeated exposure

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

P314 - Get medical advice/ attention if you feel unwell

P273 - Avoid release to the environment

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	CAS-No	Weight %	Trade	Note
		J	Secret	
Glycol Ether Acrylate	Trade Secret	10 - 30	*	
Acrylated Monomer	Trade Secret	10 - 30	*	
Acrylated Monomer	Trade Secret	10 - 30	*	
Vinyl Functional Monomer	Trade Secret	5 - 10	*	
Acrylated Monomer	Trade Secret	1 - 5	*	
Photoinitiator	Trade Secret	1 - 5	*	
Photoinitiator	Trade Secret	1 - 5	*	
Ethyl benzene (constituent)	100-41-4	< 0.5	*	1
Photoinitiator	Trade Secret	< 0.5	*	
Carbon black	1333-86-4	< 0.5	*	
Resin	Trade Secret	< 0.5	*	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

Note 1. Type of chemical: Constituent

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. 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.

Inhalation

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

Use personal protective equipment as required. Do not eat, drink or smoke when using this Handling

product. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Keep at temperatures between 18°-32°C (65°-90°F). Keep containers tightly closed in a dry, Storage

> cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Protect from direct sunlight. Keep away from open flames, hot surfaces

and sources of ignition.

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent. **Incompatible Products**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component	ACGIH TLV
Ethyl benzene (constituent)	TWA: 20 ppm
100-41-4	

Wi A33 III Sparkie Gitter Black	Nevision Date Sep-07-2010
Carbon black 1333-86-4	TWA: 3 mg/m³ inhalable particulate matter
Component	OSHA PEL
Ethyl benzene (constituent)	TWA: 100 ppm
100-41-4	TWA: 435 mg/m ³
Carbon black	TWA: 3.5 mg/m ³
1333-86-4	
Commonant	OCUA DEL (conseted)
Component	OSHA PEL (vacated)
Ethyl benzene (constituent) 100-41-4	TWA: 100 ppm
100-41-4	TWA: 435 mg/m ³
	STEL: 125 ppm STEL: 545 mg/m³
Carbon black	TWA: 3.5 mg/m ³
1333-86-4	TWA. 5.5 HIGHT
D	POWER THATY
Component	Ontario TWAEV
Ethyl benzene (constituent)	TWA: 20 ppm
100-41-4	TMA 0 / 2: 1 1 1 1
Carbon black	TWA: 3 mg/m ³ inhalable
1333-86-4	
Component	Mexico OEL (TWA)
Ethyl benzene (constituent)	TWA/VLE-PPT: 100 ppm
100-41-4	TWA/VLE-PPT: 435 mg/m ³
	STEL/PPT-CT: 125 ppm

Appropriate engineering controls

Engineering Measures

Carbon black 1333-86-4

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.

STEL/PPT-CT: 545 mg/m³ TWA/VLE-PPT: 3.5 mg/m³

STEL/PPT-CT: 7 mg/m³

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 Sweet Mild Acrylic Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

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

Vapor Density
No data availab
Specific Gravity
1.1

Water SolubilityNo data availableSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data availableDecomposition temperatureNo data available

Decomposition temperatureNo data availableKinematic viscosityNo data availableDynamic viscosityNo data available

Explosive Properties No data available Oxidizing Properties No data available

Other Information

Photochemically Reactive No Weight Per Gallon (lbs/gal) 9.15

 VOC by weight % (less water)
 VOC by volume % (less water)
 VOC lbs/gal (less water)
 VOC grams/liter (less water)

 1.58
 1.87
 0-1
 17.39

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

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
Glycol Ether Acrylate	= 4660 μL/kg (Rat)

Acrylated Monomer	= 5 g/kg(Rat)
Ethyl benzene (constituent) 100-41-4	= 3500 mg/kg(Rat)
Photoinitiator	> 2000 mg/kg(Rat)
Carbon black 1333-86-4	> 15400 mg/kg (Rat)

Component	Dermal LD50
Acrylated Monomer	= 3600 mg/kg (Rabbit)
Ethyl benzene (constituent)	= 15400 mg/kg (Rabbit)
100-41-4	
Photoinitiator	> 2000 mg/kg (Rat)

Component	Inhalation LC50
Ethyl benzene (constituent)	= 17.4 mg/L (Rat) 4 h
100-41-4	

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/irritationSpecific 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 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. May cause damage to

organs through prolonged or repeated exposure. (based on components).

Chronic Toxicity Specific test data for the substance or mixture is not available

Target Organ Effects Liver, Respiratory system.

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

Carcinogenicity	THE Table below indicates whether	er each agency has listed any ingredient as a carcinogen.
Component		ACGIH
Ethyl benzene (constituent)		A3
100-41-4		
Carbon black		A3
1333-86-4		

Component	IARC
Ethyl benzene (constituent)	Group 2B
100-41-4	
Carbon black	Group 2B
1333-86-4	

Component	OSHA
Ethyl benzene (constituent)	X
100-41-4	
Carbon black	X
1333-86-4	

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) 4,474.00 mg/kg

ATEmix (dermal) 11,489.00 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
Ethyl benzene (constituent)	96h EC50 Pseudokirchneriella subcapitata: > 438 mg/L
100-41-4	96h EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L static
	72h EC50 Pseudokirchneriella subcapitata: = 4.6 mg/L
	72h EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L static

Component	Fish
Ethyl benzene (constituent)	96h LC50 Pimephales promelas: 7.55 - 11 mg/L (flow-through)
100-41-4	96h LC50 Poecilia reticulata: = 9.6 mg/L (static)
	96h LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L (static)
	96h LC50 Pimephales promelas: 9.1 - 15.6 mg/L (static)
	96h LC50 Oncorhynchus mykiss: = 4.2 mg/L (semi-static)
	96h LC50 Lepomis macrochirus: = 32 mg/L (static)

Component	Crustacea
Ethyl benzene (constituent)	48h EC50 Daphnia magna: 1.8 - 2.4 mg/L
100-41-4	

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Component	Partition coefficient
Ethyl benzene (constituent)	3.2
100-41-4	

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 Not regulated Proper Shipping Name 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 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
Glycol Ether Acrylate	Trade Secret	10 - 30	1.0
Ethyl benzene (constituent)	100-41-4	< 0.5	0.1

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	10 - 30
Xylenes (o-, m-, p- isomers)	1330-20-7	< 1
Glycol Ether Acrylate	Trade Secret	< 0.5
Ethyl benzene (constituent)	100-41-4	< 0.5

U.S. State Regulations

The state of the s	Massachusetts Right To Know
Ethyl benzene (constituent) 100-41-4	X
Carbon black 1333-86-4	Х

Component	Minnesota
	Right To Know
Acrylated Monomer	X
Ethyl benzene (constituent)	X
100-41-4	
Carbon black	X
1333-86-4	

Component	New Jersey Right To Know
Glycol Ether Acrylate	X

Ethyl benzene (constituent)	X
100-41-4	
Carbon black	X
1333-86-4	
Component	Pennsylvania
	Right To Know
Glycol Ether Acrylate	X
Ethyl benzene (constituent)	X

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 reproductive harm

Component	California Prop. 65
Ethyl benzene (constituent)	Carcinogen
Carbon black	Carcinogen

⁻ This product contains carbon black in a non-respirable form. Inhalation of carbon black is unlikely to occur from exposure to this product

Canada

100-41-4 Carbon black 1333-86-4

Component	NPRI - National Pollutant Release Inventory
Ethyl benzene (constituent)	Part 1, Group A Substance; Part 4 Substance
100-41-4	

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 2	Flammability	Reactivity 1	Personal Protection

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

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

Revision Date Sep-07-2018

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,

specified in the text.

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

End of Safety Data Sheet