

# SAFETY DATA SHEET

Revision No

II Nullibei

Revision Date Nov-17-2021

### 1. IDENTIFICATION

**Product identifier** 

Product code SAPPHIRE-K-5

Product name Black

Product category Sapphire Series

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Industrial Printing Operations

# Details of the supplier of the safety data sheet

M&R Printing Equipment, Inc. 440 Medinah Rd. Roselle, IL 60172-2329 (800) 736-6431

### Emergency telephone number(s)

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident, call Chemtrec - Within US and Canada: (800) 424-9300 / Outside US and Canada: +1 (703) 741-5970

# 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
Deionized water	7732-18-5	30 - 60	*	
Glycerin	56-81-5	30 - 60	*	
Resin	Trade Secret	5 - 10	*	
Carbon black	1333-86-4	1 - 5	*	
Surfactant	Trade Secret	1 - 5	*	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

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Inhalation

### 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

Remove person to nesh and keep connortable for breating. It breating is in

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

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**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. Do not freeze.

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

### **Exposure limits**

Component	ACGIH TLV
Carbon black	TWA: 3 mg/m³ inhalable particulate matter
1333-86-4	

Component	OSHA PEL
Glycerin	TWA: 15 mg/m³ mist, total particulate
56-81-5	TWA: 5 mg/m³ mist, respirable fraction
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	

Component	OSHA PEL (vacated)
Glycerin	TWA: 10 mg/m³ mist, total particulate
56-81-5	TWA: 5 mg/m³ mist, respirable fraction
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	

Component	Ontario TWAEV
Carbon black	TWA: 3 mg/m³ inhalable particulate matter
1333-86-4	

Component	Mexico OEL (TWA)
Glycerin	TWA/VLE-PPT: 10 mg/m <sup>3</sup> mist
56-81-5	
Carbon black	TWA/VLE-PPT: 3 mg/m³ inhalable fraction
1333-86-4	

### 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 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** Color Colored I iauid

Odor No information available **Odor Threshold** No information available

**Property Values** Remarks • Method Ha No data available **Melting Point / Freezing Point** No data available

100 °C / 212 °F **Boiling Point / Boiling Range** 

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

**Specific Gravity** 1.11

**Water Solubility** No data available Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available

No data available **Autoignition Temperature 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 (lbs/gal) 9.26

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
0-1	No information available	0-1	

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Volatile by weight %	Water by
(including Water) 42.9	<b>weight %</b> 42.78
4∠.9	42.70

# 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. Do not freeze.

### 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
Deionized water	> 90 mL/kg (Rat)
7732-18-5	
Glycerin	= 12600 mg/kg (Rat)
56-81-5	
Carbon black	> 15400 mg/kg (Rat)
1333-86-4	

Component	Dermal LD50
Glycerin	> 10 g/kg (Rabbit)
56-81-5	

Component	Inhalation LC50
Glycerin 56-81-5	> 2.75 mg/L (Rat)4 h
Carbon black 1333-86-4	> 4.6 mg/m³ (Rat)4 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. **Eye damage/irritation**Specific test data for the substance or mixture is not available.

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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. **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. 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.

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Component	ACGIH
Carbon black 1333-86-4	A3
1000-00-4	

Component	IARC
Carbon black	Group 2B
1333-86-4	

Component	OSHA
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

# 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	Fish
Glycerin	96h LC50 Oncorhynchus mykiss: 51 - 57 mL/L (static)
56-81-5	

# Persistence and Degradability

No information available.

# **Bioaccumulation**

No information available

Component	Partition coefficient
Glycerin	-1.76
56-81-5	

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

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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

ICAO / IATA / IMDG / IMO Not Regulated

# 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**

1333-86-4

Component

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	Massachusetts Right To Know
Glycerin 56-81-5	X
Carbon black 1333-86-4	X
Component	Minnesota Right To Know
Glycerin 56-81-5	X
Carbon black 1333-86-4	X
Component	New Jersey Right To Know
Glycerin 56-81-5	×
Carbon black	X

Pennsylvania Right To Know

### **California Proposition 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

C	omponent	California Prop. 65
Ca	arbon 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

1333-86-4

No information available

# HMIS: Health Flammability Reactivity Personal Protection 1 1 0 X

# 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 Nov-02-2021

# 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**