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

Product identifier

Product code **SIPI548**
Product name **SIPI548 7225 Ultra Blue**
Product category **Interference Specialty Pigment**

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 | Barton Road |
| Shawnee, KS 66227 | 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

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 |
|------------------|------------|----------|--------------|------|
| Titanium dioxide | 13463-67-7 | 30 - 60 | * | |
| Mica | 12001-26-2 | 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 | 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. Powdered material may form explosive dust-air mixture.

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

Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use only non-sparking tools. Clean contaminated surface thoroughly.

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 |
|--------------------------------|--|
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ |
| Mica 12001-26-2 | TWA: 3 mg/m ³ respirable particulate matter |

| Component | OSHA PEL |
|--------------------------------|--------------------------------------|
| Titanium dioxide 13463-67-7 | TWA: 15 mg/m ³ total dust |

| Component | OSHA PEL (vacated) |
|--------------------------------|--|
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ total dust |
| Mica 12001-26-2 | TWA: 3 mg/m ³ respirable dust |

| Component | Ontario TWAEV |
|--------------------------------|-------------------------------------|
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ |
| Mica 12001-26-2 | TWA: 3 mg/m ³ respirable |

| Component | Mexico OEL (TWA) |
|--------------------------------|--|
| Titanium dioxide 13463-67-7 | TWA/VLE-PPT: 10 mg/m ³ STEL/PPT-CT: 20 mg/m ³ |
| Mica 12001-26-2 | TWA/VLE-PPT: 3 mg/m ³ respirable fraction |

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 | Powder | Appearance | Blue |
| Odor | Odorless | 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 | | Not applicable |
| Flash Point | | Not Applicable |
| 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 | 3.2 | |
| Water Solubility | | No data available |
| Solubility in other solvents | | No data available |
| Partition coefficient: n-octanol/water | | 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 (lbs/gal) | 26.68 |

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

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 | 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 |
|--------------------------------|-----------------------|
| Titanium dioxide 13463-67-7 | > 10000 mg/kg (Rat) |

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. |
| 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. |

| Component | IARC |
|--------------------------------|----------|
| Titanium dioxide 13463-67-7 | Group 2B |

| Component | OSHA |
|--------------------------------|------|
| Titanium dioxide 13463-67-7 | X |

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 mg/kg 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

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 Not regulated
Proper Shipping Name Paint Related Material, Dry Pigment / Powder

ICAO / IATA / IMDG / IMO Not Regulated
Proper Shipping Name Paint Related Material, Dry Pigment / Powder

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 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 |
|--------------------------------|--------------------------------|
| Titanium dioxide 13463-67-7 | X |
| Mica 12001-26-2 | X |

| Component | Minnesota Right To Know |
|--------------------------------|----------------------------|
| Titanium dioxide 13463-67-7 | X |
| Mica 12001-26-2 | X |

| Component | New Jersey Right To Know |
|--------------------------------|-----------------------------|
| Titanium dioxide 13463-67-7 | X |
| Mica 12001-26-2 | X |

| Component | Pennsylvania Right To Know |
|--------------------------------|-------------------------------|
| Titanium dioxide 13463-67-7 | X |
| Mica 12001-26-2 | 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 |
|------------------|---------------------|
| Titanium dioxide | Carcinogen |

Canada

No information available

16. OTHER INFORMATION

| 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

Sep-20-2019

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