

# SAFETY DATA SHEET

## MX 217 and 2215

### SECTION 1

### IDENTIFICATION OF SUBSTANCE/MIXTURE

Product Name: MX 217 and 2215

Supplier: PRO Chemical & Dye  
126 Shove Street  
Fall River, MA 02724  
Phone: 508-676-3838  
Fax: 508-676-3980

EMERGENCY CONTACT:  
800-255-3924 ChemTel. (United States)  
+ 1 01 813-248-0585 (Outside the United States)

Recommended Use of the Chemical and Restrictions on Use: For Industrial use only.

### SECTION 2

### HAZARDS IDENTIFICATION

GHS Pictogram(s)



Category 1 Sensitization, Skin  
Category 3 Single Target Organ Toxicity - Single Exposure

Signal Word: **WARNING**

Hazard Statements: H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

Precautionary Statements: **Prevention**

Avoid breathing dust, fumes, gas, mist, vapors, spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, face protection. Use only outdoors or in a well-ventilated area.

**Response**

**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**Storage**

Keep in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

Dispose of contents and container in accordance with local, state and federal regulations.

Other Hazards Which do Contact with the eye and skin may cause irritation. Ingestion may cause gastric not Result in Classification disturbances. In the case of dusty organic products the possibility of dust explosion should always be considered.

### SECTION 3

### COMPOSITION/INFORMATION ON INGREDIENTS

Component(s):

Yellow MX-3R

CAS:  
Proprietary

%:  
Proprietary

The chemical identity of some or all components present is confidential business information (Trade Secret) and is being withheld as permitted by 29CFR 1919.1200 (i)

# SAFETY DATA SHEET

## SECTION 4

## FIRST AID MEASURES

Inhalation:	Remove person to fresh air immediately while getting immediate medical attention. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed.
Skin:	Immediately wash skin with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention.
Ingestion:	Never give anything by mouth or induce vomiting to an unconscious or convulsing person. Have victim drink plenty of water for dilution effect. Do NOT induce vomiting without medical advice. Seek immediate medical attention.
Eye:	Flush eyes with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains at least 15 - 20 minutes. Get immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed:	See Section 2 and/or Section 11.
Indication of any Immediate Medical Attention and Special Treatment Needed:	People with chronic respiratory problems should not work with reactive dyestuff powders. If symptoms such as tightness in the chest or asthma occur while handling reactive dyestuff powders, a physician should be consulted as soon as possible. If hypersensitivity is confirmed, all contact with reactive dyestuff powders should cease immediately.

## SECTION 5

## FIRE FIGHTING MEASURES

Extinguishing Media:	Water spray, alcohol resistant foam or dry chemical.
Unsuitable Extinguishing Media:	CO <sub>2</sub> and high volume water jet as this may scatter and spread fire.
Special Protective Equipment and Precautions for Firefighters:	Firefighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers. Move containers from fire area if you can do so without risk. Avoid inhalation of material or combustion by products. Stay upwind stay out of low areas.
Specific Hazards Arising from the Chemical:	Like most materials in powder form, powder may be capable of creating dust explosions. Observe the usual precautionary measures required for chemicals with dust explosive properties. Decomposition can produce toxic and irritating fumes and gases of COx, NOx, and SOx.

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

Personal Precautions Protective Equipment and Emergency Procedures:	Keep unnecessary and unprotected people away from area of spill. Cleanup personnel should wear appropriate protective clothing and equipment. Ensure proper ventilation spill site. Avoid formation and deposition of dust. Avoid inhalation of dust, vapors, mist and gas.
Environmental Precautions:	Do not let spilled material enter floor drains, sewers or water sources or the environment.

## SAFETY DATA SHEET

Methods and Materials for Containment and Cleaning-up:

Ensure proper ventilation. Collect spilled material, avoid generation and deposition of dust, and place in an appropriate waste disposal container. After clean-up is complete wash spill site. Do not allow material to enter floor drains, sewers or water sources of any kind.

### SECTION 7

### HANDLING AND STORAGE

Precautions for Safe Handling:

Use in a well ventilated area. Use necessary PPE's to prevent exposure by any route. Avoid inhalation and contact with skin and eyes. Keep container tightly closed. Keep away from food and drinks. Do not eat, drink or smoke at work. Wash hands before breaks and at the end of workday. Good personal hygiene is a must. Eyewash fountain and quick drench shower should be available in the immediate work area.

Conditions for Safe Storage Including Incompatibilities:

Store in a cool, dry, well-ventilated place away from oxidizing and reducing agents. Keep container tightly closed. Store locked up. In filling operations take precautionary measures against static discharges. Avoid generation and deposition of dust.

### SECTION 8

### EXPOSURE CONTROLS PERSONAL PROTECTION

Exposure Limits:

In accordance with good industrial hygiene and safety practices. OSHA PEL Nuisance dust, Total dusts 15 mg/m<sup>3</sup>; ACGIH TL V: Particles not otherwise classified 10 mg/m<sup>3</sup>

Ventilation:

Ensure proper ventilation, local exhaust recommended. Ventilation equipment should be explosion proof.

Eye Protection:

Chemical safety goggles with side shields or tight fitting goggles.

Respiration :

If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Clothing:

Appropriate protective clothing, gloves, lab coat, apron or coveralls to prevent any contact.

NOTE: Eyewash fountain and quick drench shower should be available in the immediate work area.

### SECTION 9

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orange Powder
Odor / Odor threshold:	Slight odor.
pH:	Not available
Evaporation Rate:	Not available.
Boiling Point/Range:	Not available.
Melting / Freezing Point:	Not available.
Vapor Pressure:	Not available.
Relative Density:	Not available.
Vapor Density:	Not available.
Partition Coefficient	Not available.
n-octanol / water:	
Solubility(ies):	Water - Soluble.
Flammability(solid, gas):	Not available.
Flash Point: Not available.	UEL: Not available. LEL: Not available.

## SAFETY DATA SHEET

Autoignition Temperature: Not available.  
Decomposition Temperature: Not available.  
Viscosity: Not available.

### SECTION 10

### STABILITY AND REACTIVITY

Reactivity: Will not polymerize.

Chemical Stability: Stable under proper conditions of storage and use.

Possibility of Hazardous Reactions: In the case of dusty organic products the possibility of dust explosion should always be considered.

Hazardous Decomposition Products: May include but are not limited to oxides of carbon, nitrogen and sulfur.

Incompatible Materials: Keep away from oxidizing and reducing agents.

Conditions to Avoid: Avoid humidity, and excessive temperatures. Avoid generation and deposition of dust.

### SECTION 11

### TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation: Yes    Skin Absorption: No    Ingestion: No    Skin: Yes    Eye: Yes  
Toxicity: Not available.

Acute and Chronic: **Acute:** Contact with the eyes and skin may result in irritation. Inhalation may result in respiratory irritation. Ingestion may cause gastric disturbances.  
**Chronic:** To the best of our knowledge there are no known chronic effects associated with this material.

Symptoms of Overexposure: Skin sensitization may include one or more of the following: redness, swelling, itching, rash and hives. Respiratory sensitization can range from runny nose, cough and irritated eyes to asthmatic symptoms. Individuals who have shown an allergic reaction to this product must not continue to be exposed. Physiologic effects may progress to shock, cardiovascular collapse and death.

Sensitization: Repeated exposure to high dust concentration of some reactive dyestuffs may cause respiratory hypersensitivity.

Single Target Organ Toxicity - Single Exposure - Respiratory System  
Single Target Organ Toxicity - Repeated Exposure - Not known.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure: Although respiratory sensitization has not been observed with this product, dyestuffs are known to have caused this in certain people. Similar analogues of the reduction product, 2-nitro-para phenylenediamine, may have potential concerns for carcinogenicity, mutagenicity, blood toxicity, developmental toxicity and neurotoxicity. In addition, there are potential concerns for carcinogenicity, mutagenicity, developmental toxicity and sensitization from the vinyl sulfone that is formed in the dye bath. NIOSH approved respirators should be used by workers who may be exposed to dust or aerosols containing reactive dyes.

Carcinogen Status: IARC: No    NTP: No    OSHA: No

NOTE: Persons with any pre-existing skin, eye or respiratory conditions may be more susceptible to the effects of this product.

# SAFETY DATA SHEET

## SECTION 12

## ECOLOGICAL INFORMATION

Eco-toxicity: Not available.

Persistence and  
Degradability: Not available.

Soil Mobility: Not available.

Bio-Accumulative Potential: Not available.

Other Adverse Effects: Not available.

## SECTION 13

## DISPOSAL CONSIDERATIONS

Disposal: Dispose of contents and container in accordance with local, regional, national, and international regulations.

Un-Cleaned Packaging: Soiled empty containers are to be treated in the same way as the contents.

## SECTION 14

## TRANSPORTATION INFORMATION

D.O.T.: Not Regulated.

I.A.T.A.: Not Regulated.

Marine Pollutant: No

I.M.D.G.: Not Regulated.

## SECTION 15

## REGULATORY INFORMATION

SARA 311/312: Acute Health Hazard

## SECTION 16

## OTHER INFORMATION

Date Prepared: December 6, 2017 GHS Formatting

While the data and information obtained herein are presented in good faith and believed to be accurate, it is provided for your guidance only and it is the user's obligation to determine the conditions of safe use of the product. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products or information may be used without infringing the intellectual property rights of others. In no case shall the information or data provided be considered a part of our terms and conditions of sales. Further, you expressly understand and agree that the data and information furnished by this company hereunder are given gratis and this company assumes no obligation or liability for the data and information given or results obtained all such being given and accepted at your risk. END OF SAFETY DATA SHEET

## SAFETY DATA SHEET MX 2204

### SECTION 1

### IDENTIFICATION OF SUBSTANCE/MIXTURE

Product Name:

MX 2204

Supplier:

PRO Chemical & Dye  
126 Shove Street  
Fall River, MA 02724  
Phone: 508-676-3838

EMERGENCY CONTACT

800-255-3924 ChemTel. (United States)  
+ 1 01 813-248-0585 (Outside United States)

Recommended Use of the Chemical and Restrictions on Use: For Industrial use only.

### SECTION 2

### HAZARDS IDENTIFICATION

GHS Pictogram(s)



Category 1 Sensitization, Skin  
Category 3 Single Target Organ Toxicity - Single Exposure

Signal Word: **WARNING**

Hazard Statements: H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

Precautionary Statements:

**Prevention**

Avoid breathing dust, fumes, gas, mist, vapors, spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, face protection. Use only outdoors or in a well-ventilated area.

**Response**

**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**Storage**

Keep in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

Dispose of contents and container in accordance with local, state and federal regulations.

Other Hazards Which do Contact with the eye and skin may cause irritation. Ingestion may cause gastric not Result in Classification disturbances. In the case of dusty organic products the possibility of dust explosion should always be considered.

### SECTION 3

### COMPOSITION/INFORMATION ON INGREDIENTS

Component(s):

CAS:  
Proprietary

%  
Proprietary

Yellow MX-8G

The chemical identity of some or all components present is confidential business information (Trade Secret) and is being withheld as permitted by 29CFR1919.1200 (i)

# SAFETY DATA SHEET

## SECTION 4

## FIRST AID MEASURES

- Inhalation: Remove person to fresh air immediately while getting immediate medical attention. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed.
- Skin: Immediately wash skin with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention.
- Ingestion: Never give anything by mouth or induce vomiting to an unconscious or convulsing person. Have victim drink plenty of water for dilution effect. Do NOT induce vomiting without medical advice. Seek immediate medical attention.
- Eye: Flush eyes with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains at least 15 - 20 minutes. Get immediate medical attention.

Most Important Symptoms and Effects Both Acute and Delayed: See Section 2 and/or Section 11.

Indication of any Immediate Medical Attention and Special Treatment Needed: People with chronic respiratory problems should not work with reactive dyestuff powders. If symptoms such as tightness in the chest or asthma occur while handling reactive dyestuff powders, a physician should be consulted as soon as possible. If hypersensitivity is confirmed, all contact with reactive dyestuff powders should cease immediately.

## SECTION 5

## FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, alcohol resistant foam or dry chemical.

Unsuitable Extinguishing Media: CO<sub>2</sub> and high volume water jet as this may scatter and spread fire.

Special Protective Equipment and Precautions for Firefighters: Firefighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers. Move containers from fire area if you can do so without risk. Avoid inhalation of material or combustion by products. Stay upwind stay out of low areas.

Specific Hazards Arising from the Chemical: Like most materials in powder form, powder may be capable of creating dust explosions. Observe the usual precautionary measures required for chemicals with dust explosive properties. Decomposition can produce toxic and irritating fumes and gases of CO<sub>x</sub>, NO<sub>x</sub>, and SO<sub>x</sub>.

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

Personal Precautions Protective Equipment and Emergency Procedures: Keep unnecessary and unprotected people away from area of spill. Cleanup personnel should wear appropriate protective clothing and equipment. Ensure proper ventilation spill site. Avoid formation and deposition of dust. Avoid inhalation of dust, vapors, mist and gas.

Environmental Precautions: Do not let spilled material enter floor drains, sewers or water sources or the environment.



## SAFETY DATA SHEET

Methods and Materials for Containment and Cleaning-up:

Ensure proper ventilation. Collect spilled material, avoid generation and deposition of dust, and place in an appropriate waste disposal container. After clean-up is complete wash spill site. Do not allow material to enter floor drains, sewers or water sources of any kind.

### SECTION 7

### HANDLING AND STORAGE

Precautions for Safe Handling:

Use in a well ventilated area. Use necessary PPE's to prevent exposure by any route. Avoid inhalation and contact with skin and eyes. Keep container tightly closed. Keep away from food and drinks. Do not eat, drink or smoke at work. Wash hands before breaks and at the end of workday. Good personal hygiene is a must. Eyewash fountain and quick drench shower should be available in the immediate work area.

Conditions for Safe Storage Including Incompatibilities:

Store in a cool, dry, well-ventilated place away from oxidizing and reducing agents. Keep container tightly closed. Store locked up. In filling operations take precautionary measures against static discharges. Avoid generation and deposition of dust.

### SECTION 8

### EXPOSURE CONTROLS PERSONAL PROTECTION

Exposure Limits:

In accordance with good industrial hygiene and safety practices. OSHA PEL Nuisance dust, Total dusts 15 mg/m<sup>3</sup>: ACGTH TLV: Particles not otherwise classified 10 mg/m<sup>3</sup>

Ventilation:

Ensure proper ventilation, local exhaust recommended. Ventilation equipment should be explosion proof.

Eye Protection:

Chemical safety goggles with side shields or tight fitting goggles.

Respiration :

If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR 1910.134.

Clothing:

Appropriate protective clothing, gloves, lab coat, apron or coveralls to prevent any contact.

NOTE: Eyewash fountain and quick drench shower should be available in the immediate work area.

### SECTION 9

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow Powder

Odor / Odor threshold: Slight odor.

pH: Not available.

Evaporation Rate: Not available.

Boiling Point/Range: Not available.

Melting / Freezing Point: Not available.

Vapor Pressure: Not available.

Relative Density: Not available.

Vapor Density: Not available.

Partition Coefficient

n-octanol / water: Not available.

Solubility(ies): Water - Soluble.

Flammability(solid, gas): Not available. UEL: Not available. LEL: Not available.

Flash Point: Not available.



**SAFETY DATA SHEET**

Autoignition Temperature: Not available.  
Decomposition Temperature: Not available.  
Viscosity: Not available.

**SECTION 10**

**STABILITY AND REACTIVITY**

Reactivity: Will not polymerize.  
Chemical Stability: Stable under proper conditions of storage and use.  
Possibility of Hazardous Reactions: In the case of dusty organic products the possibility of dust explosion should always be considered.  
Hazardous Decomposition Products: May include but are not limited to oxides of carbon, nitrogen and sulfur.  
Incompatible Materials: Keep away from oxidizing and reducing agents.  
Conditions to Avoid: Avoid humidity, and excessive temperatures. Avoid generation and deposition of dust.

**SECTION 11**

**TOXICOLOGICAL INFORMATION**

Likely Routes of Exposure: Inhalation: Yes Skin Absorption: No Ingestion: No Skin: Yes Eye: Yes  
Toxicity: Not available.  
Acute and Chronic: **Acute:** Contact with the eyes and skin may result in irritation. Inhalation may result in respiratory irritation. Ingestion may cause gastric disturbances.  
**Chronic:** To the best of our knowledge there are no known chronic effects associated with this material.  
Symptoms of Overexposure: Skin sensitization may include one or more of the following: redness, swelling, itching, rash and hives. Respiratory sensitization can range from runny nose, cough and irritated eyes to asthmatic symptoms. Individuals who have shown an allergic reaction to this product must not continue to be exposed. Physiologic effects may progress to shock, cardiovascular collapse and death.  
Sensitization: Repeated exposure to high dust concentration of some reactive dyestuffs may cause respiratory hypersensitivity.  
Single Target Organ Toxicity - Single Exposure - Respiratory System  
Single Target Organ Toxicity - Repeated Exposure - Not known.  
Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure: Although respiratory sensitization has not been observed with this product, dyestuffs are known to have caused this in certain people. Similar analogues of the reduction product, 2-nitro-para phenylenediamine, may have potential concerns for carcinogenicity, mutagenicity, blood toxicity, developmental toxicity and neurotoxicity. In addition, there are potential concerns for carcinogenicity, mutagenicity, developmental toxicity and sensitization from the vinyl sulfone that is formed in the dye bath. NIOSH approved respirators should be used by workers who may be exposed to dust or aerosols containing reactive dyes.  
Carcinogen Status: IARC: No NTP: No OSHA: No  
NOTE: Persons with any pre-existing skin, eye or respiratory conditions may be more susceptible to the effects of this product.

# SAFETY DATA SHEET

## SECTION 12

## ECOLOGICAL INFORMATION

Eco-toxicity: Not available.

Persistence and  
Degradability: Not available.

Soil Mobility: Not available.

Bio-Accumulative Potential: Not available.

Other Adverse Effects: Not available.

## SECTION 13

## DISPOSAL CONSIDERATIONS

Disposal: Dispose of contents and container in accordance with local, regional, national, and international regulations.

Un-Cleaned Packaging: Soiled empty containers are to be treated in the same way as the contents.

## SECTION 14

## TRANSPORTATION INFORMATION

D.O.T.: Not Regulated.

LA.T.A.: Not Regulated.

Marine Pollutant: No

I.M.D.G.: Not Regulated.

## SECTION 15

## REGULATORY INFORMATION

SARA 311/312: Acute Health Hazard

## SECTION 16

## OTHER INFORMATION

Date Prepared: December 6, 2017 GHS Formatting

While the data and information obtained herein are presented in good faith and believed to be accurate, it is provided for your guidance only and it is the user's obligation to determine the conditions of safe use of the product. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products or information may be used without infringing the intellectual property rights of others. In no case shall the information or data provided be considered a part of our terms and conditions of sales. Further, you expressly understand and agree that the data and information furnished by this company hereunder are given gratis and this company assumes no obligation or liability for the data and information given or results obtained all such being given and accepted at your risk. END OF SAFETY DATA SHEET

1. **SECTION 1**

**SECTION 1**

**IDENTIFICATION OF SUBSTANCE/MIXTURE**

Product Name:  
Strong Orange MX 202

Supplier: PRO Chemical & Dye  
126 Shove Street  
Fall River, MA 02724  
Phone: 508-676-3838  
Fax: 508-676-3980

EMERGENCY CONTACT:  
800-255-3924 ChemTel. (United States)  
  
+ 1 01 813-248-0585  
(Outside the United States)

Recommended Use of the Chemical and Restrictions on Use: For Industrial use only.

**SECTION 2**

**HAZARDS IDENTIFICATION**

GHS Pictogram(s)



Category 1 Sensitization, Skin  
Category 3 Single Target Organ Toxicity - Single Exposure

Signal Word: **WARNING**

Hazard Statements: H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

Precautionary Statements: **Prevention**

Avoid breathing dust, fumes, gas, mist, vapors, spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, face protection. Use only outdoors or in a well-ventilated area.

**Response**

**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**Storage**

Keep in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

Dispose of contents and container in accordance with local, state and federal regulations.

Other Hazards Which do not Result in Classification

Contact with the eye and skin may cause irritation. Ingestion may cause gastric disturbances. In the case of dusty organic products the possibility of dust explosion should always be considered.

**SECTION 3**

**COMPOSITION, INFORMATION ON INGREDIENTS**

Component(s):

Orange MX-2R

Proprietary

Proprietary

The chemical identity of some or all components present is confidential business information (Trade Secret) and is being withheld as permitted by 29CFR 1919.1200 (i)

# SAFETY DATA SHEET

## SECTION 4

## FIRST AID MEASURES

- Inhalation: Remove person to fresh air immediately while getting immediate medical attention. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed.
- Skin: Immediately wash skin with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention.
- Ingestion: Never give anything by mouth or induce vomiting to an unconscious or convulsing person. Have victim drink plenty of water for dilution effect. Do NOT induce vomiting without medical advice. Seek immediate medical attention.
- Eye: Flush eyes with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains at least 15 - 20 minutes. Get immediate medical attention.

Most Important Symptoms and Effects Both Acute and Delayed: See Section 2 and/or Section 11.

Indication of any Immediate Medical Attention and Special Treatment Needed: People with chronic respiratory problems should not work with reactive dyestuff powders. If symptoms such as tightness in the chest or asthma occur while handling reactive dyestuff powders, a physician should be consulted as soon as possible. If hypersensitivity is confirmed, all contact with reactive dyestuff powders should cease immediately.

## SECTION 5

## FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, alcohol resistant foam or dry chemical.

Unsuitable Extinguishing Media: CO<sub>2</sub> and high volume water jet as this may scatter and spread fire.

Special Protective Equipment and Precautions for Firefighters: Firefighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers. Move containers from fire area if you can do so without risk. Avoid inhalation of material or combustion by products. Stay upwind stay out of low areas.

Specific Hazards Arising from the Chemical: Like most materials in powder form, powder may be capable of creating dust explosions. Observe the usual precautionary measures required for chemicals with dust explosive properties. Decomposition can produce toxic and irritating fumes and gases of CO<sub>x</sub>, NO<sub>x</sub>, and SO<sub>x</sub>.

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

Personal Precautions Protective Equipment and Emergency Procedures: Keep unnecessary and unprotected people away from area of spill. Cleanup personnel should wear appropriate protective clothing and equipment. Ensure proper ventilation spill site. Avoid formation and deposition of dust. Avoid inhalation of dust, vapors, mist and gas.

Environmental Precautions: Do not let spilled material enter floor drains, sewers or water sources or the environment.

Methods and Materials for Containment and Clean-up: Ensure proper ventilation. Collect spilled material, avoid generation and deposition of dust, and place in an appropriate waste disposal container. After clean-up is complete wash spill site. Do not allow material to enter floor drains, sewers or water sources of any kind.

# SAFETY DATA SHEET

## SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:

Use in a well ventilated area. Use necessary PPE's to prevent exposure by any route. Avoid inhalation and contact with skin and eyes. Keep container tightly closed. Keep away from food and drinks. Do not eat, drink or smoke at work. Wash hands before breaks and at the end of workday. Good personal hygiene is a must. Eyewash fountain and quick drench shower should be available in the immediate work area.

Conditions for Safe Storage Including Incompatibilities:

Store in a cool, dry, well-ventilated place away from oxidizing and reducing agents. Keep container tightly closed. Store locked up. In filling operations take precautionary measures against static discharges. Avoid generation and deposition of dust.

## SECTION 8 EXPOSURE CONTROLS PERSONAL PROTECTION

Exposure Limits: In accordance with good industrial hygiene and safety practices. OSHA PEL Nuisance dust, Total dusts 15 mg/m<sup>3</sup>: ACGIH TLV: Particles not otherwise classified 10 mg/m<sup>3</sup>

Ventilation: Ensure proper ventilation, local exhaust recommended. Ventilation equipment should be explosion proof.  
Eye Protection: Chemical safety goggles with side shields or tight fitting goggles.

Respiration: If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Clothing: Appropriate protective clothing, gloves, lab coat, apron or coveralls to prevent any contact.

NOTE: Eyewash fountain and quick drench shower should be available in the immediate work area.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orange Powder	
Odor / Odor threshold:	Slight odor.	
pH:	Not available.	
Evaporation Rate:	Not available.	
Boiling Point/Range:	Not available.	
Melting / Freezing Point:	Not available.	
Vapor Pressure:	Not available.	
Relative Density:	Not available.	
Vapor Density:	Not available.	
Partition Coefficient n-octanol / water:	Not available.	
Solubility(ies):	Water - Soluble.	
Flammability(solid, gas):	Not available.	UEL: Not available. LEL: Not available.
Flash Point:	Not available.	
Autoignition Temperature:	Not available.	

# SAFETY DATA SHEET

Decomposition Temperature: Not available.  
Viscosity: Not available.

## SECTION 10

## STABILITY AND REACTIVITY

Reactivity: Will not polymerize.

Chemical Stability: Stable under proper conditions of storage and use.

Possibility of Hazardous Reactions: In the case of dusty organic products the possibility of dust explosion should always be considered.

Hazardous Decomposition Products: May include but are not limited to oxides of carbon, nitrogen and sulfur.

Incompatible Materials: Keep away from oxidizing and reducing agents.

Conditions to Avoid: Avoid humidity, and excessive temperatures. Avoid generation and deposition of dust.

## SECTION 11

## TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation:Yes    Skin Absorption.No    Ingestion:No    Skin:Yes    Eye:Yes  
Toxicity: Not available.

Acute and Chronic: **Acute:** Contact with the eyes and skin may result in irritation. Inhalation may result in respiratory irritation. Ingestion may cause gastric disturbances.  
**Chronic:** To the best of our knowledge there are no known chronic effects associated with this material.

Symptoms of Overexposure: Skin sensitization may include one or more of the following: redness, swelling, itching, rash and hives. Respiratory sensitization can range from runny nose, cough and irritated eyes to asthmatic symptoms. Individuals who have shown an allergic reaction to this product must not continue to be exposed. Physiologic effects may progress to shock, cardiovascular collapse and death.

Sensitization: Repeated exposure to high dust concentration of some reactive dyestuffs may cause respiratory hypersensitivity.

Single Target Organ Toxicity - Single Exposure - Respiratory System  
Single Target Organ Toxicity - Repeated Exposure - Not known.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure: Although respiratory sensitization has not been observed with this product, dyestuffs are known to have caused this in certain people. Similar analogues of the reduction product, 2-nitro-para phenylenediamine, may have potential concerns for carcinogenicity, mutagenicity, blood toxicity, developmental toxicity and neurotoxicity. In addition, there are potential concerns for carcinogenicity, mutagenicity, developmental toxicity and sensitization from the vinyl sulfone that is formed in the dye bath. NIOSH approved respirators should be used by workers who may be exposed to dust or aerosols containing reactive dye

Carcinogen Status: IARC: No    NTP: No    OSHA: No

NOTE: Persons with any pre-existing skin, eye or respiratory conditions may be more susceptible to the effects of this product.

# SAFETY DATA SHEET

## SECTION 12

## ECOLOGICAL INFORMATION

Eco-toxicity: Not available.

Persistence and  
Degradability: Not available.

Soil Mobility: Not available.

Bio-Accumulative Potential: Not available.

Other Adverse Effects: Not available.

## SECTION 13

## DISPOSAL CONSIDERATIONS

Disposal: Dispose of contents and container in accordance with local, regional, national, and international regulations.

Un-Cleaned Packaging: Soiled empty containers are to be treated in the same way as the contents.

## SECTION 14

## TRANSPORTATION INFORMATION

D.O.T.: Not Regulated.

LA.T.A.: Not Regulated.

Marine Pollutant: No

LM.D.G.: Not Regulated.

## SECTION 15

## REGULATORY INFORMATION

SARA 3111312: Acute Health Hazard

## SECTION 16

## OTHER INFORMATION

**Date Prepared: December 6, 2017 GHS Formatting**

While the data and information obtained herein are presented in good faith and believed to be accurate, it is provided for your guidance only and it is the user's obligation to determine the conditions of safe use of the product. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products or information may be used without infringing the intellectual property rights of others. In no case shall the information or data provided be considered a part of our terms and conditions of sales. Further, you expressly understand and agree that the data and information furnished by this company hereunder are given gratis and this company assumes no obligation or liability for the data and information given or results obtained all such being given and accepted at your risk. END OF SAFETY DATA SHEET