

1.



SAFETY DATA SHEET

MX 3220 and 3222

SECTION 1

IDENTIFICATION OF SUBSTANCE/MIXTURE

Product Name: MX 3220 and MX 3222

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 I 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 ₂ 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/m³; ACGIH TL V: Particles not otherwise classified 10 mg/m³

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

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:
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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

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SAFETY DATA SHEET

SECTION 4

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- 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.

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

Unsuitable Extinguishing Media: CO₂ and high volume water jet as this may scatter and spread fire.

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SAFETY DATA SHEET

SECTION 7 HANDLING AND STORAGE

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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/m³: ACGIH TLV: Particles not otherwise classified 10 mg/m³

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.

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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

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Toxicity: Not available.

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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

SAFETY DATA SHEET

MX300 and MX301

ISSUE DATE: 1/17/17

1. PRODUCT IDENTIFICATION

PRODUCT NAME: SCARLET MX 300
CHEMICAL FAMILY: REACTIVE DYESTUFF
T.S.C.A. STATUS: IN COMPLIANCE

SUPPLIER: PRO Chemical & Dye
126 Shove Street
Fall River, MA 02724

Emergency Telephone Numbers:
800-255-3924 ChemTel. (United States)
+ 1 01 813-248-0585 (Outside the United States)

2. HAZARDS IDENTIFICATION

GHS Classification: Health Category 2A - Eye Irritant
Health Category 1 – Skin Sensitizer
Health Category 5 – Oral Toxicity
Environmental Category 3 – Chronic Aquatic Toxicity



Pictogram

Signal Word: Warning

Hazard Statements: H317: May Cause an Allergic Skin Reaction
H319: Causes Serious Eye Irritation
H412: Harmful to aquatic life with long-lasting effects
H303: May be harmful if swallowed

Precautionary Statements:

P264: Wash face, hands, and any exposed skin thoroughly after handling.
P280: Wear protective gloves/ protective clothing/eye protection/face protection
P270: Do not eat, drink, or smoke when using this product.
P260: Do not breathe dust/fume/gas/mist/vapors/spray
P273: Avoid release to the environment
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water for 15 minutes.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a comfortable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Reactive Red 2 (17804-49-8) 18.4% Causes serious eye irritation. May cause an allergic skin reaction.

The exact ingredient percentages and composition of non-hazardous components have been withheld as a trade secret.

4. FIRST-AID MEASURES

GENERAL INFORMATION: IMMEDIATELY REMOVE ALL CONTAMINATED CLOTHING

EYE CONTACT: Wash immediately with large amounts of water for 15 minutes, lifting the upper and lower lids until no evidence of product remain. Get medical attention immediately. Do not wear contact lenses while handling.

SKIN CONTACT: Remove all contaminated clothing immediately. Wash immediately with soap and plenty of water. If a temporary skin reaction occurs, it should be treated as allergic contact dermatitis. Launder contaminated clothing before reuse.

INGESTION: Dilute with water. Get medical attention. Never give fluids or induce vomiting if patient is unconscious or has convulsions.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most significant symptoms and effects are described in the labelling (see section 2) and/or in section 11

INDICATION OF ANY SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No data available

5. FIREFIGHTING MEASURES

FLASH POINT: Not Applicable

EXTINGUISHING MEDIA: Dry Chemical, Foam, Water Fog

SPECIAL FIRE FIGHTING PROCEDURES/UNUSUAL FIRE OR EXPLOSION HAZARDS:

Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritating fumes. In case of fire or explosion, keep unnecessary people away. Isolate hazard area & any entry. Stay upwind, out of low areas, and ventilate closed spaces before entering.

ADDITIONAL INFORMATION Avoid dusting conditions. May form explosive dust mixtures with air.

6. ACCIDENTAL RELEASE MEASURE

IN CASE MATERIAL IS RELEASED/SPILLED:

Avoid formation and deposition of dust. Do not empty into drains or waters. Do not touch or walk through the spilled material: stop leak if you can do it without risk. Take up with sand or other non-combustible absorbent material or suitable vacuum and place into labeled sealable containers. For further disposal measures see section 13.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

In accord with good industrial practice. Handle with care and avoid personal contact.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly sealed and away from any incompatible materials (see Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

APPROPRIATE ENGINEERING CONTROLS:

Handle with good industrial practices and industrial hygiene. Wash hands after use.

GENERAL PROTECTIVE MEASURES:

Do not breathe dust. Avoid contact with eyes and skin. Immediately remove all contaminated clothing.

EYE PROTECTION: Employees should wear protective eye-goggles with side protection shield.

SKIN PROTECTION: Employees should avoid skin contact by wearing protective clothing. Long sleeve shirts, pants, gloves e.g. of PVC or nitrile rubber, and boots are recommended. Additional protections such as impervious suits are recommended when the potential for dermal contact is significant. Employees should wash their hands and face before eating and drinking and shower thoroughly before leaving work. Keep away from food and drink stuffs.

RESPIRATORY PROTECTION: Inhalation of dust and aerosols must be absolutely prevented by the use of a NIOSH approved dust respirator.

VENTILATION: Use local ventilation.

OTHER: Wear overalls, apron or other protective clothing.

9. PHYSICAL DATA

APPEARANCE:	POWDER
COLOR:	RED
ODOR:	NONE
ODOR THRESHOLD	ND
SOLUBILITY IN WATER:	100 g/l at 60°C
BULK DENSITY	400-800 kg/m ³
RELATIVE DENSITY	NA
VISCOSITY	ND
pH:	7.0 - 7.5
MELTING POINT/FREEZING POINT	ND
PARTITION COEFFICIENT: N-OCTANOL/WATER	ND
BOILING POINT	ND
VAPOR PRESSURE	ND
VAPOR DENSITY	ND
EVAPORATION RATE	ND
FLAMMABILITY	NON COMBUSTIBLE
FLASH POINT	>212°F
IGNITION TEMP:	ND
DECOMPOSITION TEMPERATURE	ND
UEL	ND
LEL	ND

% VOLATILE: VALUE: 0.70 UNIT: % COMMENT: de-dusting oil

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION: ND
HAZARDOUS REACTIONS: None Expected
CHEMICAL STABILITY:.....Stable
INCOMPATIBLE MATERIALSStrong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTSCO₂, CO, SULFUR OXIDES, NITROGEN OXIDES
CONDITIONS TO AVOID.....In the case of dusty organic products the possibility of a dust explosion should always be considered. Avoid generation of dust.
HAZARDOUS POLYMERIZATION.....Will not occur

11. TOXICOLOGICAL DATA

ANIMAL TOXICITY ORAL - LD50 (INGESTION):	>2000 (RAT)
FISH, LC50:	10-100 mg/l (48h, oncorhynchus mykiss)
EYE EFFECTS:	IRRITANT
SKIN EFFECTS:	NON-IRRITANT
SENSITIZATION:	SENSITIZER (Mouse)

PRIMARY ROUTE OF EXPOSURE

INHALATION: YES SKIN ABSORPTION: NO INGESTION: NO
SKIN CONTACT: YES EYE CONTACT: YES

CARCINOGEN STATUS

IARC: NO NTP: NO OSHA: NO

HMIS: 2 1 0 E

CHRONIC EFFECTS OF OVEREXPOSURE

This product belongs to a class of dyestuffs in which occasional cases of respiratory sensitization have been observed. Such attacks can be fatal. Prolonged or repeated contact with this material might increase the likelihood of an individual developing a sensitization to this material. Individuals with known allergies should avoid all contact with this product.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Irritating to the eyes, skin and respiratory tract. May cause allergic respiratory reaction in certain individuals. Symptoms include coughing, tightness of chest, shortness of breath and other asthma like symptoms. It is possible that subsequent dermal exposures may cause the same symptoms in sensitized individuals. Individuals with chronic respiratory illness may be more susceptible to the effects of this material.

MEDICAL CONDITIONS AGGRAVATED

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

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY: ND
BACTERIA TOXICITY: ND
AOX: > 6.0%

13. DISPOSAL CONSIDERATIONS

PRODUCT: If utilization or recycling of the product is not possible, it should be disposed of in accordance with existing federal, state and local environmental regulations, e.g. by incineration in a suitable plant.

UNCLEANED PACKAGING: Soiled, empty containers are to be treated in the same way as the contents.

14. SHIPPING DATA

PROPER SHIPPING NAME: NON-HAZARDOUS INK MATERIAL
D.O.T. HAZARD CLASSIFICATION: NOT REGULATED
FRT. CLASS PACKAGE: 55

IATA: NON-REGULATED

IMDG: NON-REGULATED

15. REGULATORY DATA

US REGULATIONS:

TSCA: The components of this product are listed on the TSCA Inventory

SARA 313: This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

SARA 312:	Immediate (acute) health hazard	Yes
	Delayed (chronic) health hazard	Yes
	Fire hazard	No
	Sudden Release of Pressure	No
	Reactivity	No

This product is not subject to the German Ordinance that bans certain azo dyes or the 19th Amendment of the Council Directive 76/769/EEC.

CALIFORNIA PROPOSITION 65: This product contains the following components currently on the California List of Known Carcinogens and reproductive Toxins.

Formaldehyde (50-00-0) 122 ppm

16. OTHER INFORMATION

This company warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in its directions for use, subject to the inherent risks referred to in the safety data sheet for this product. This company makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall this company be liable for consequential, special, or indirect damages resulting from the use or handling of this product.

MSDS Created: March 1, 2012

MSDS Revised: September 27, 2016

SAFETY DATA SHEET

MX 305, MX 302, MX 312, MX 331, MX 332, MX3142 and MX 3216

SECTION 1

IDENTIFICATION OF SUBSTANCE/MIXTURE

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):

Red MX-5B

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: CO₂ 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_x, NO_x, and SO_x.

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. A void 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/m³; ACGIH TLV: Particles not otherwise classified 10 mg/m³

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 29CFR191 0.134.

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: Red 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.

Flash Point: Not available.

Autoignition Temperature: Not available.

UEL: Not available. LEL: 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 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

SAFETY DATA SHEET

MX308, MX303, MX310, MX333, MX335, MX3208, and MX3221

SECTION 1

IDENTIFICATION OF SUBSTANCE/MIXTURE

Product Name: MX 308

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 I 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)

Red MX-8B

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 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 ₂ 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/m³; ACGIH TLV: Particles not otherwise classified 10 mg/m³

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: Red 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.

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. NTOSH 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