SAFETY DATA SHEET
MX400, MX434, MX444, MX4148, MX4156, and MX4190

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

ISSUE DATE: 6/8/16

1. PRODUCT IDENTIFICATION

PRODUCT NAME .................. MX Blue 400, 434, 444, 4148, 4156 and 4190
CHEMICAL FAMILY .............. REACTIVE AZO
T.S.C.A. STATUS ................ IN COMPLIANCE
PRIMARY PRODUCT USE ........ TEXTILE MANUFACTURING
SUPPLIED BY ..................... PRO CHEMICAL & DYE
126 SHOVE STREET
FALL RIVER, MA 02724
PHONE: 508-676-3838

2. HAZARDS IDENTIFICATION

Warning: May cause an allergic skin reaction.

Warning: Causes Serious Eye Irritation

This Product has been classified as a Category 2A eye irritant.

Warning: May be harmful if swallowed
This Product has been classified as Category 5 oral toxicity.

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  ACGIH: NO
HMIS: 1 0 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. May be irritating to the 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 tills product.

3. HAZARDOUS INGREDIENTS

Reactive Blue 4 (13324-20-4) 60 – 70% Irritant

The exact ingredient percentages and composition has been withheld as a trade secret.

4. EMERGENCY AND FIRST AID PROCEDURES

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.
5. FIRE AND EXPLOSION DATA

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. SPILL OR LEAK PROCEDURES

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. SPECIAL PRECAUTIONS AND STORAGE DATA

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

8. EMPLOYEE PROTECTION RECOMMENDATIONS

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 ............................ BLUE
ODOR ............................... NONE
ODOR THRESHOLD .............. NA
SOLUBILITY IN WATER .......... 60 g/l @ 40 C
BULK DENSITY ................. ND
VISCO TTY ....................... NA
pH .................................. 7.0-7.5-6.0
MELTING POINT/FREEZING POINT .... NA
PARTITION COEFFICIENT: N-OCTANOL/WATER ........... ND
BOILING POINT ................. NA
V APOR PRESSURE .............. NA
VAPOR DENSITY ............... NA
EVAPORATION RATE .......... NA
FLAMMABUTY .................. NA
FLASH POINT ..................... NA
IGNITION TEMP ................... NA
DECOMPOSITION TEMPERA TURB .... ND
UEL ............................... NA
LEL ............................... NA
VOLATILE: VALUE: 0.00 UNIT: % COMMENT:

10. REACTIVITY DATA

THERMAL DECOMPOSITION: No thermal decomposition when stored and handled correctly.
HAZARDOUS REACTIONS: In the case of dusty organic products the possibility of a dust explosion should always be considered.
CHEMICAL STABILITY ...................... Stable
INCOMPATABLE MATERIALS: None
HAZARDOUS DECOMPOSITION PRODUCTS ........ C02, CO, SULFUR OXIDES NITROGEN OXIDES
CONDITIONS TO AVOID .............. Avoid dusting conditions and sparks/flame.
HAZARDOUS POLYMERIZATION .... Will not occur

11. TOXICOLOGICAL DATA

ANIMAL TOXICITY ORAL - LD50 (INGESTION) ........... > 2000 rug/kg (RAT)
FISH, LC50 .................................. > 100 mg/l (96h, Oncorhynchus mykiss)
EYE EFFECTS ...................... IRRITANT (RABBIT)
SKIN EFFECTS ...................... NON-IRRITANT (RABBIT)
SENSITIZATION .................... Has a possible sensitising effect

12. ECOLOGICAL DATA

BIODEGRADABILITY: 20 – 50%
BACTERIA TOXICITY: > 10 mg/l (ACTIVATED SLUDGE)
AOX: 8.5% POTENTIAL
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) 66.5

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 material 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: November 17, 2010
MSDS Revised: May 27, 2015
SAFETY DATA SHEET

Mixing Blue MX 402c

SECTION 1  IDENTIFICATION OF SUBSTANCE/MIXTURE

PRODUCT NAME  Mixing Blue MX 402c

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)

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):
Mixing Blue MX402c  Proprietary  Proprietary

The chemical identity of some or all components present is confidential business information (Trade Secret) and is being withheld as permitted by 29CFR1910.1200 (i)
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:

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 Cox, NOx, and SOx.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Personal Precautions
Protective Equipment and Emergency Procedures:

Environmental Precautions:

Methods and Materials for Containment and Cleaning-up:

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.

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

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.
SECTIO N 7  
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 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: Blue 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: Not available.
Solubility(ies): Water - Soluble.

Flammability(solid, gas): Not available.
Flash Point: Not available.
Auto-ignition Temperature: Not available.

UEL: Not available. LEL: Not available.
SAFETY DATA SHEET

Decomposition Temperature: Not available.
Viscosity: Not available.

SECTION 10

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

Likely Routes of Exposure: Inhalation:Yes Skin Absorption:No Ingestion:No Skin:Yes Eye:Yes

Toxicity: Not available.

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.
SECTION 12  

ECOLOGICAL INFORMATION  

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<td>Degradability</td>
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<td>Soil Mobility</td>
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<td>Bio-Accumulative Potential</td>
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<tr>
<td>Other Adverse Effects</td>
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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  

<table>
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<th>Classification</th>
<th>Details</th>
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<td>L.A.T.A.</td>
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<td>L.M.D.G.</td>
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SECTION 15  

REGULATORY INFORMATION  

TSCA Inventory Status: Listed.  
SARA 311/312: Acute Health Hazard

SECTION 16  

OTHER INFORMATION  

Date Prepared: January 23, 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
MX406, MX404, MX4154, MX4201, and MX4205

PRINT DATE: 10/16/19

1. PRODUCT IDENTIFICATION

PRODUCT NAME .................. INTENSE BLUE MX 406
CHEMICAL FAMILY ................. REACTIVE DYESTUFF
T.S.C.A. STATUS .................. COMPLIANCE
RECOMMENDED PRODUCT USE .......................... TEXTILE MANUFACTURING
RESTRICTED PRODUCT USE ........................ FOR INDUSTRIAL USE ONLY
SUPPLIED BY .......................... PRO CHEMICAL & DYE

126 SHOVE STREET
FALL RIVER, MA  02724
PHONE: 508-676-3838
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 1B-Skin Sensitizer

Pictogram:

Signal Word: Warning

Hazard Statements: H317: May Cause an Allergic Skin Reaction
                     H319: Causes Serious Eye Irritation

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
P501: Dispose of contents/container in accordance with local/regional/international regulations

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 position for breathing.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary Reactive Blue Skin Sensitizer and eye irritant

The exact percentages and the composition of non-hazardous materials 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 .......... CO2, Dry Chemical, Foam, Water

SPECIAL FIREFIGHTING 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.

6. ACCIDENTAL RELEASE MEASURES

IN CASE MATERIAL IS RELEASED/SPILLED:

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 protected from direct sunlight in a dry, cool and in a well-ventilated area. Keep the 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: 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 AND CHEMICAL PROPERTIES

APPEARANCE .................. POWDER
COLOR .......................... BLUE
ODOR ............................. NONE
ODOR THRESHOLD ........ NA
SOLUBILITY IN WATER .... 100 g/l at 90 deg C
BULK DENSITY ............... 400-800 kg/m3
RELATIVE DENSITY .......... NA
VISCOSITY ........................ NA
pH ................................. 6.0-7.0
MELTING POINT/FREEZING POINT ........ NA
PARTITION COEFFICIENT: N-OCANTOL/WATER .......... ND
BOILING POINT ................. NA
VAPOR PRESSURE .............. NA
VAPOR DENSITY ............... NA
EVAPORATION RATE .......... NA
FLAMMABILITY ................. NA
FLASH POINT ................... NA
INGINITION TEMP ............ NO
DECOMPOSITION TEMPERATURE .... ND
UEL ............................... NA
LEL ............................... NA

% VOLATILE: VALUE: 0.05 UNIT: % COMMENT: as VOC
10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION: No thermal decomposition when stored and handled correctly.
POSSIBILITY OF HAZARDOUS REACTIONS: None expected
CHEMICAL STABILITY: Stable
INCOMPATABLE MATERIALS: None
HAZARDOUS DECOMPOSITION PRODUCTS: CO₂, CO, SULFUR OXIDES, NITROGEN OXIDES
CONDITIONS TO AVOID: Avoid dusting conditions and sparks/flame.
REACTIVITY: Will not occur

11. TOXICOLOGICAL INFORMATION

ANIMAL TOXICITY ORAL - LD50 (INGESTION) >5000 mg/l (rats)
FISH, LC50 > 100 mg/l (96 hour, Brachydanio rerio)
EYE EFFECTS: IRRITANT (RABBIT)
SKIN EFFECTS: NON-IRRITANT (RABBIT)
SENSITIZATION: MAY CAUSE SENSITIZATION BY SKIN CONTACT (GUINEA PIG).

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY: NO
BACTERIA TOXICITY: > 2500 ml/l (Sewage sludge organisms)

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
IAT A(P,C): 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 |
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<td>Sudden Release of Pressure</td>
<td>No</td>
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<tr>
<td>Reactivity</td>
<td>No</td>
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CALIFORNIA PROPOSITION 65: This product does contain any components currently on the California List of Known Carcinogens and reproductive Toxins.
Formaldehyde (50-00-0) .034 ppm

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.

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 material 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.

Creation date: March 29, 2017
Revision date: March 29, 2017
Safety Data Sheet
MX Turquoise 410, MX 4143 and MX 4181

PRINT DATE: 10/16/19

1. PRODUCT IDENTIFICATION

PRODUCT NAME ...............MX Turquoise 410
CHEMICAL FAMILY .............PHTHALOCYANINE
T.S.C.A. STATUS ...............COMPLIANCE
RECOMMENDED PRODUCT USE …. TEXTILE MANUFACTURING
RESTRICTED PRODUCT USE .. FOR INDUSTRIAL USE ONLY
SUPPLIED BY .................. PRO CHEMICAL & DYE
126 SHOVE STREET
FALL RIVER, MA 02724
PHONE: 508-676-3838

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 1-Skin Sensitizer

Pictogram:

Signal Word: Warning

Hazard Statements: H317: May Cause an Allergic Skin Reaction

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
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water for 15 minutes.
P333 + P313 If skin irritation or rash 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 position for breathing.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietar Reactive Blue May cause an allergic 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 remains. 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 .............. CO2 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 MEASURES

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 protected from direct sunlight in a dry, cool and in a well-ventilated area.
Keep the 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 ....................... DARK BLUE
ODOR .......................... NONE
ODOR THRESHOLD ............ NA
SOLUBILITY IN WATER ........ 120 g/l @ 20°C
BULK DENSITY .................. ND
RELATIVE DENSITY ............. NA
VIScosity ..................... NA
pH .................................. 7.0 @ 10.0 g/l at 20°C
MELTING POINT/FREEZING POINT .......... NA
PARTITION COEFFICIENT: N-OCTANOL/WATER .......... ND
BOILING POINT ................ NA
VAPOR PRESSURE .............. NA
VAPOR DENSITY ............... NA
EVAPORATION RATE ........... NA
FLAMMABILITY .................. NA
FLASH POINT ................... NA
IGNITION TEMP ................ NA
DECOMPOSITION TEMPERATURE .... ND
UEL ............................ NA
LEL ............................ NA
% VOLATILE: VALUE: 0.02 UNIT: % COMMENT: De-Dusting Oil
10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION: No thermal decomposition when stored and handled correctly.
POSSIBILITY OF HAZARDOUS REACTIONS: None expected
CHEMICAL STABILITY: Stable
INCOMPATABLE MATERIALS: None
HAZARDOUS DECOMPOSITION PRODUCTS: CO2, CO, SULFUR OXIDES, NITROGEN OXIDES
CONDITIONS TO AVOID: Avoid dusting conditions and sparks/flame.
REACTIVITY: Will not occur

11. TOXICOLOGICAL INFORMATION

ANIMAL TOXICITY ORAL - LD50 (INGESTION): > 5000 mg/kg (RAT)
FISH, LC50: > 100 mg/l 96HR (Oncorhynchus mykiss)
EYE EFFECTS: NON-IRRITANT (RABBIT EYE)
SKIN EFFECTS: NON-IRRITANT (RABBIT)
SENSITIZATION: MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

PRIMARY ROUTE OF EXPOSURE:

<table>
<thead>
<tr>
<th>INHALATION: NO</th>
<th>SKIN ABSORPTION: NO</th>
<th>INGESTION: NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN CONTACT: YES</td>
<td>EYE CONTACT: YES</td>
<td></td>
</tr>
</tbody>
</table>

CARCINOGEN STATUS:

| IARC: NO | NTP: NO | OSHA: NO | ACGIH: NO |

HMIS: 1 1 0 E

CHRONIC EFFECTS OF OVEREXPOSURE:
None known

SIGNS AND SYMPTOMS OF OVEREXPOSURE:
May be irritating to the eyes, skin, or respiratory tract.

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: < 20%
BACTERIA TOXICITY IC50:  >10 mg/l (activated sludge)
COD
AOX: ND
                                                     1,100 mg/l
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(C,P): 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 111 Section 313 reporting requirements under 40 CFR 372.

SARA 312:
- Immediate (acute) health hazard: No
- Delayed (chronic) health hazard: No
- 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 components currently on the California List of Known Carcinogens and reproductive Toxins

Formaldehyde (50-00-0) 180 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 material 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 24, 2017
MSDS Revised: March 24, 2017
SAFETY DATA SHEET
Deep Navy MX 414

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME--------- DEEP NAVY MX 414

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)

SECTION 2: HAZARD IDENTIFICATION

Classification:
Skin corrosion/irritation------------------Category 2
Serious eye damage /eye irritation------Category 2

EMERGENCY OVERVIEW
signal word
WARNING

Hazard statements: H315 - Causes skin irritation
H319 - Causes serious eye irritation

Appearance: Powder  Physical State: Powder  Odor: None

Precautionary statements
P310 - Immediately call a POISON CENTER or doctor/physician
P302+ P352 -IF ON SKIN: Wash with plenty of soap and water
P321- Specific treatment (see supplemental first aid instructions on this label)
P332+ P313 -if skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 +P351 +P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 +P313 - If eye irritation persists: Get medical advice/attention

Hazards Not Otherwise Classified (UNOC)

OTHER INFORMATION

Unknown Acute Toxicity
100 percent of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3: COMPOSITION! INFORMATION ON INGREDIENTS

CHEMICAL NAME DEEP NAVY MX414
C. A. S.# 72847-57-5

SECTION 4: FIRST AID MEASURES

First aid measures for different exposure routes.

EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES.

SKIN: WASH WITH MILD SOAP AND WATER. IF IRRITATION OCCURS GET MEDICAL ATTENTION. IF CLOTHING IS CONTAMINATED, REMOVE AND WASH BEFORE RE-USE.

INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.

INGESTION: RINSE MOUTH. GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION. IF UNCONSCIOUS, DO NOT GIVE ANYTHING TO DRINK. GET IMMEDIATE MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES

IN CASE OF FIRE----- KEEPER UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY. STAY UPWIND, OUT OF LOW AREAS, AND VENTILATE CLOSED SPACES BEFORE ENTERING.

FIRE FIGHTING PROCEDURE-----DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS OUT.

FIRE FIGHTING EQUIPMENT----USE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES.

SECTION 6: ACCIDENTAL SPILL OR RELEASE INSTRUCTIONS

STEPS TO BE TAKEN---- DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. TAKE UP WITH SAND OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIALS AND PLACE INTO CONTAINERS FOR LATER DISPOSAL. SCRUB SPILL AREA WITH DETERGENT, FLUSH WITH COPIOUS AMOUNT OF WATER.

WASTE DISPOSAL METHOD---- BURY OR INCINERATE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

CONTAINER REUSE METHOD----CONTAINERS SHOULD NOT BE REUSED WITHOUT PROFESSIONAL CLEANING AND CONDITIONING.

SECTION 7: HANDLING AND STORAGE

NO SPECIAL PRECAUTIONS ANTICIPATED. WEAR ALL PROPER PERSONAL PROTECTION EQUIPMENT AS OUTLINED IN SECTION VIII AND AVOID PHISICAL CONTACT WITH MATERIAL.
SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

RESPIRATORY ---- NIOSH APPROVED DUST RESPIRATOR WHEN NEEDED.

SKIN----- ALWAYS WEAR IMPERVIOUS GLOVES AND APPROPRIATE EQUIPMENT TO PREVENT PROBABILITY OF PERSONAL CONTACT.

EYES----- WEAR SIDE-SHIELD SAFETY GLASSES.

VENTILATION----- LOCAL EXHAUST SHOULD BE USED TO MAINTAIN EXPOSURE LIMITS AND TO DRAW SPRAY, AEROSOL, VAPORS OR DUSTS AWAY FROM WORKERS AND PREVENT ROUTINE INHALATION.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<th>Value</th>
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</thead>
<tbody>
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<td>Vapor Pressure</td>
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<td>Vapor Density</td>
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<td>Volatility</td>
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</tr>
<tr>
<td>Freeze Point</td>
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</tr>
<tr>
<td>Melting Point</td>
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<tr>
<td>Boiling Point</td>
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<tr>
<td>Flammable Limits</td>
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<td>Odor</td>
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<td>Appearance</td>
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<td>Specific Grav.</td>
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<td>Evap. Rate</td>
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<td>PH of Product</td>
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</table>

SECTION 10: STABILITY AND REACTIVITY

STABILITY ------ STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID----- NONE KNOWN

INCOMPATIBLE MATERIALS--UNKNOWN

HAZARDOUS DECOMPOSITION PRODUCTS---BURNING WILL PRODUCE OXIDES OF CARBON, NITROGEN, AND OTHER POTENTIALLY TOXIC FUMES.

HAZARDOUS POLYMERIZATION----- WILL NOT UNDERGO POLYMERIZATION.

CONDITIONS TO AVOID---NONE KNOWN

SECTION 11: TOXICOLOGICAL INFORMATION

<table>
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<th>Value</th>
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<tbody>
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<td>Oral LD50 (Rat)</td>
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<td>Skin Effects (Rabbit)</td>
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<td>Mutagenicity</td>
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<td>Inhalation LC50</td>
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SECTION 12: ECOLOGICAL DATA

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<tr>
<td>COD</td>
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<td>Biodegradability</td>
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<td>Persistence</td>
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<td>Sewage Treatment</td>
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<tr>
<td>Supplemental Test Data</td>
<td>NO DATA CURRENTLY AVAILABLE</td>
</tr>
</tbody>
</table>

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Toxicity to Algae          no data available
Toxicity to Fish           no data available
Toxicity to daphnia and other aquatic invertebrates
Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Other Adverse Effects
No information available.

SECTION 13: DISPOSAL AND ENVIRONMENTAL CONSIDERATION

Waste treatment

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).

Contaminated Packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

SECTION 14: SHIPPING AND TRANSPORTATION INFORMATION

DOT REGULATION GROUND--NOT REGULATED
IATA REGULATION (AIR)--NOT REGULATED
IMDG/IMO REGULATION (WATER)--NOT REGULATED

DOT HAZARD CLASS----NON-HAZARDOUS
DOT CLASSIFICATION----NON-HAZARDOUS MATERIAL
COMMODITY CLASS----INK MATERIAL

SECTION 15: REGULATORY INFORMATION

REGULATORY LIST REFERENCE:

NOTE: WHEN NO COMPONENTS ARE SHOWN IN SPACE ABOVE THIS NOTE, NO FEDERAL OR STATE REPORTING REQUIREMENTS APPLY TO THIS PRODUCT. WHEN COMPONENTS ARE LISTED ABOVE, LIST NUMBERS SHOWN BELOW INDICATE APPLICABLE REGULATIONS.

LIST NUMBERS
1 ACCIDENTAL RELEASE SUBSTANCE
2 CERCLA 304 HAZARDOUS SUBSTANCE (RQ)
3 RESERVED
4 CLEAN AIR ACT-SEC.III VOLATILE ORGANIC COMPOUNDS
5 CLEAN AIR ACT-SEC. I 12 HAZ. AIR POLLUTANT (HAP, HAP CODE)
6 CLEAN AIR ACT-OZONE DEPLETING CHEMICAL (ODC)
7 CLEAN WATER ACT-RQ
8 CLEAN WATER ACT-PRIORITY POLLUTANT (PP) RQ
9 MARINE POLLUTANT (MP)
10 PSM HIGHLY HAZARDOUS CHEMICAL
11 RCRA HAZARDOUS WASTE (RCRA C06E)
12 SARA 302 EXTREMELY HAZARDOUS SUBSTANCE (EHS)(RQ)
13 SARA 313 TOXIC RELEASE INVENTORY (TRJ)(TR CONC, TR THRESHOLD)
14 SOCMCI CHEMICAL (CAA)
15 STATE LISTS
16 SUPPLEMENTAL REGULATORY INFORMATION (SRI)

T.S.C.A---- IN COMPLIANCE
O.S.H.A. HAZARD CLASSIFICATION:非 HAZARDOUS

SARA 311/312 HAZARD CATEGORIES:
IMMEDIATE ACUTE HEALTH HAZARD: NO
CHRONIC/DELAYED HAZARD: NO
FLAMMABLE: NO
REACTIVITY HAZARD: NO
OXIDIZER: NO

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 Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals

SECTION 16: OTHER INFORMATION

LAST REVISION DATE.
01/31/2019

HMIS RATINGS:
HEALTH: 1 Flammability: 1 Physical Hazard: 0 PERSONAL PROTECTION: F

DISCLAIMER:

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910,1200 AND SUPERSEDES ANY PREVIOUS INFORMATION. PREVIOUSLY DATED SHEETS ARE INVALID AND INAPPLICABLE.

END OF SDS
SAFETY DATA SHEET
Simply Navy MX 420

ISSUE DATE: 4/6/17

1. PRODUCT IDENTIFICATION

PRODUCT NAME ............SIMPLY NAVY MX 420
CHEMICAL FAMILY ..........AZO
T.S.C.A. STATUS .............COMPLIANCE
RECOGNIZED PRODUCT USE TEXTILE MANUFACTURING
RESTRICTED PRODUCT USE FOR INDUSTRIAL USE ONLY
SUPPLIED BY ................. PRO CHEMICAL & DYE
126 SHOVE STREET
FALL RIVER, MA 02724
PHONE: 508-676-3838

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 5-Oral Acute Toxicity

Pictogram: NONE

Signal Word: Warning

Hazard Statements: 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 position for breathing.

PAGE 1
3. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary Reactive Blue  May be harmful if swallowed.

The exact ingredient percentages and composition has 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 ........ CO2 Dry Chemical Foam Water Fog
SPECIAL FIREFIGHTING 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 MEASURES

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 protected from direct sunlight in a dry, cool and in a well-ventilated area. Keep the 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 ...................... BLUE
ODOR ........................ NONE
ODOR THRESHOLD .......... NA
SOLUBILITY IN WATER ...100 g/l @ 60°C
BULK DENSITY ............ 400-600 kg/m3
RELATIVE DENSITY ....... NA
VISCOITY .................... NA
pH .......................... 6.0 @ 80 g/l 20°C
MELTING POINT/FREEZING POINT .NA
PARTITION COEFFICIENT: N-OCTANOL/WATER ....ND
BOILING POINT ........... NA
VAPOR PRESSURE ........... NA
VAPOR DENSITY ............ NA
EVAPORATION RATE ....... NA
FLAMMABILITY ............. NA
FLASH POINT ............... NA
IGNITION TEMP ............. NA
DECOMPOSITION TEMPERATURE .... ND
UEL .......................... NA
LEL .......................... NA
%VOLATILE: VALUE: ND UNIT: % COMMENT:
10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION: No thermal decomposition when stored and handled correctly.
POSSIBILITY OF HAZARDOUS REACTIONS: None expected
CHEMICAL STABILITY: Stable
INCOMPATABLE MATERIALS: None
HAZARDOUS DECOMPOSITION PRODUCTS: C02, CO, SULFUR OXIDES, NITROGEN OXIDES
CONDITIONS TO AVOID: Avoid dusting conditions and sparks/flame.

11. TOXICOLOGICAL INFORMATION

ANIMAL TOXICITY ORAL - LD50 (INGESTION) >= 2000 mg/kg (RAT)
FISH, LC50: > 100 mg/l (96 hour, Oncorhynchus mykiss)
EYE EFFECTS: NON-IRRITANT (RABBIT)
SKIN EFFECTS: NON-IRRITANT ANT (RABBIT)
SENSITIZATION: ND

PRIMARY ROUTE OF EXPOSURE

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

CARCINOGEN STATUS

| IARC: ND | NTP: ND | OSHA: ND | ACGIH: ND |

HMIS: 1100 E

CHRONIC EFFECTS OF OVEREXPOSURE:

None Known. Reactive dyes may cause respiratory sensitization in some individuals.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

May be irritating to the eyes, skin, and respiratory tract.

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: 20 – 25%
BACTERIA TOXICITY EC50: > 100 mg/l (activated sludge respiration test)
AOX: 1.31%
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 (C,P): NON-HAZARDOUS
IMDG: NON-HAZARDOUS

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 No
Delayed (chronic) health hazard No
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 components currently on the California List of Known Carcinogens and reproductive Toxins

Formaldehyde (50-00-0) 11 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 material 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.

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