

# MATERIAL SAFETY DATA SHEET

0963

~~PRO~~  
chemical & Dye  
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## SECTION 1 NAME & HAZARD SUMMARY

Material name:

PRO MX Reactive Dye Indigo 422N

Hazard summary (as defined by OSHA Hazard Communication Standard,  
29 CFR 1910.1200):

Physical hazards: None

Health hazards: Skin irritant, eye irritant, pulmonary (lung) sensitizer

Read the entire MSDS for a more thorough evaluation of the hazards.

## SECTION 2 INGREDIENTS

	%	OSHA PEL
Disazo dichlorotriazine reactive dye		Not listed
Other nonhazardous ingredients		Not listed

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications. gt = greater than, lt = less than, ca = approximately

## SECTION 3 PHYSICAL DATA

Boiling point: Not applicable  
Vapor pressure (mmHg at 20°C): No data  
Vapor density (air = 1): No data  
Solubility in water: 150 g/l  
pH: No data  
Specific gravity: About 1  
% Volatile by volume: Negligible  
Appearance and odor: Blue, odorless powder

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point (and method): Not applicable  
Autoignition temp.: No data  
Flammable limits (STP): Not applicable

Extinguishing media:

Water fog, foam, carbon dioxide, dry chemical, halogenated agents.

Special fire fighting protective equipment:

Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual fire and explosion hazards:

This product may form explosive dust clouds in air.

MATERIAL SAFETY DATA SHEET (continued)

SECTION 5 REACTIVITY DATA

Stability:

Stable under normal conditions.

Incompatibility (materials to avoid):

Oxidizing agents.

Hazardous decomposition products:

Combustion products: Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, sulfur oxides, halogen, halogen acids, possible trace amounts of carbonyl halide.

Hazardous polymerization:

Will not occur.

SECTION 6 HEALTH HAZARD ASSESSMENT

General:

No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on similar materials.

Ingestion:

The acute oral LD<sub>50</sub> in rat is probably above 5 g/kg. Relative to other materials, a single dose of this product is practically nontoxic by ingestion.

Eye contact:

This material is likely to be slightly irritating to human eyes following contact.

Skin contact:

Irritation may develop following repeated and/or prolonged contact with human skin.

Skin absorption:

This product is not likely to be absorbed through human skin.

Inhalation:

Although the potential for respiratory sensitization is expected to be low from exposures to dusts generated from this dyestuff, some individuals have developed respiratory allergic reactions after repeated and/or prolonged exposures to high atmospheric concentrations of dust from some reactive dyes, of which Procion dyes are one type. Cough, tightness in chest, and/or asthmatic wheezing may be signs of respiratory allergy.

Other effects of overexposure:

No other adverse clinical effects are known to be associated with exposures to this material.

First aid procedures:

Skin: Wash material off the skin with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention.

Eyes: Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

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SAFETY DATA SHEET (continued)

PRO Indigo 422N

HEALTH HAZARD ASSESSMENT (continued)

Aid procedures (continued):

Ingestion: Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person.)

Inhalation: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Wear skin, eye and respiratory protection during cleanup. Sweep up and recover or mix material with moist absorbent and shovel into waste container. Wash down spill area with water and flush to a sewer serviced by a wastewater treatment facility. Use care to minimize the amount of dyestuff that reaches the sewer.

Disposal method:

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container disposal:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue and puncture or otherwise destroy empty container before disposal.

SECTION 8 SPECIAL PROTECTION INFORMATIONTLV® or suggested control value:

No TLV assigned. Minimize exposure in accordance with good hygiene practice.

Ventilation:

Use local exhaust to keep exposures to a minimum.

Respiratory protection (specify type):

If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes whose TLV is greater than 0.05 mg/m<sup>3</sup>.

Protective clothing:

Gloves, apron and arm covers to avoid skin contact (see Section 9).

Eye protection:

Chemical tight goggles.

Other protective equipment:

Eyewash station and safety shower in work area.

SECTION 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling or storing:

Follow procedures specified in the National Fire Protection Association Codes and Standards for handling explosive dusts. Maintain good housekeeping to avoid dust buildup. Avoid skin contact; stains may be difficult to remove without injuring the skin. Prevent eye contact. Minimize inhalation exposure to dusts. A sensitized individual should not be exposed to the product which caused the sensitization.

SECTION 10 REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are on the TSCA Chemical Substance Inventory.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

\*\*\* Other Information:

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.\*

NFPA

1 Health  
3 Flammability  
0 Reactivity  
Special Hazards

HMIS

1 Health  
3 Flammability  
0 Reactivity  
PPE<sup>1</sup>

\*This information is intended solely for the use of individuals trained in the particular hazard rating system.

<sup>1</sup>See appropriate MSDS section.

The information herein is given in good faith  
but no warranty, expressed or implied, is made.

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\*\*\*This line or section contains revisions or new statements since the last issue date.