

MATERIAL SAFETY DATA SHEET

0965

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SECTION 1 NAME & HAZARD SUMMARY

Material name:

PROCION® Blue MX-R (C.I. Reactive Blue 4)

PRO Blue 400

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

Physical hazards: None

Health hazards: Pulmonary (lung) sensitizer, eye irritant

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

SECTION 2 INGREDIENTS

	%	OSHA PEL
C.I. Reactive Blue 4 (CAS 4499-01-8)		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: 80 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.

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:**

Limited toxicity data are available on this specific product; this health hazard assessment is based on the results of screening tests.

Ingestion:

The acute oral LD₅₀ in rat is above 5 g/kg. Relative to other materials, a single dose of this product is practically nontoxic by ingestion.

Eye contact:

This material is moderately irritating in rabbit eye studies; a similar degree of irritation will probably occur after human eye contact.

Skin contact:

This material is nonirritating in rabbit dermal irritation studies; it is not likely to irritate 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 and have eyes examined and treated by medical personnel.

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SECTION 6 HEALTH HAZARD ASSESSMENT (continued)**First 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 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 INFORMATION**TLV® 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/m³.

Protective clothing:

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

Eye protection:

Chemical tight goggles.

Other protective equipment:

Eyewash station 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.

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.

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.