

**Dorn & Hart Microedge, Inc**  
**MATERIAL SAFETY DATA SHEET**

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Section 1 - Product and Company Information

Product Name Molybdatophosphoric Acid Orange G

Company Dorn & Hart Microedge, Inc

135 W Home Ave.

Villa Park IL 60181

Technical Phone: 630-832-3843

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Section 2 - Composition/Information on Ingredient

Substance Name CAS # SARA 313

ACID ORANGE 10 1936-15-8 No

Formula C16H10N2Na2O7S2

Synonyms Acidal Fast Orange \* Acid Fast Orange EGG \* Acid

Fast Orange G \* Acid Leather Orange KG \* Acid

Leather Orange PGW \* Acid Light Orange G \* Acid

Light Orange J \* Acid Light Orange JA Export \*

Acid Light Orange SX \* Acid Orange 10 \* Acid

Orange G \* Acid Orange 2G \* Acid Orange GG \*

Acilan Orange GX \* Apocid Orange 2G \* Atul Acid

Crystal Orange G \* Brasilan Orange 2G \* Bucacid

Fast Orange G \* Calcocid Fast Light Orange 2G \*

Certicol Orange GS \* Cetil Light Orange GG \* C.I.

27 \* C.I. 16230 \* C.I. Acid Orange 10 \* C.I. Acid

Orange 10, disodium salt \* C.I. Food Orange 4 \*

Colacid Orange G \* Crystal Orange 2G \* D&C Orange

No. 3 \* Eniacid Light Orange G \* Erio Fast Orange

AS \* Fast Light Orange GA \* Fast Light Orange

GA-CF \* Hexacol Orange GG Crystals \* Hidacid Fast

Orange G \* Hidacid Fast Orange 2G \* Hispacid Fast

Orange 2G \*

7-Hydroxy-8-(phenylazo)-1,3-naphthalenedisulfonic  
acid, disodium salt \*

7-Hydroxy-8-(phenylazo)-1,3-naphthalenedisulphonic  
acid, disodium salt \* Java Orange 2G \* Kiton

Fast Orange G \* Ink Orange JSN \* Intracid Fast

Orange G \* Naphthalene Fast Orange 2G \*

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Caution: Avoid contact and inhalation.

#### HMIS RATING

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

#### NFPA RATING

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

#### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

#### FLASH POINT

N/A

#### AUTOIGNITION TEMP

N/A

#### FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

### HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Suitable: Keep tightly closed.

## Section 8 - Exposure Controls / PPE

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand: Protective gloves.

Eye: Chemical safety goggles.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

Appearance Physical State: Liquid

Property Value At Temperature or Pressure

Molecular Weight 452.38 AMU

pH N/A

BP/BP Range N/A

MP/MP Range N/A

Freezing Point N/A

Vapor Pressure N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

SG/Density N/A

Bulk Density N/A

Odor Threshold N/A

Volatile% N/A

VOC Content N/A

Water Content N/A

Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Surface Tension N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point N/A  
Explosion Limits N/A  
Flammability N/A  
Autoignition Temp N/A  
Refractive Index N/A  
Optical Rotation N/A  
Miscellaneous Data N/A  
Solubility N/A  
N/A = not available

#### Section 10 - Stability and Reactivity

##### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

##### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

##### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

#### Section 11 - Toxicological Information

##### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

##### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

##### CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

##### IARC CARCINOGEN LIST

Rating: Group 3

##### NTP CARCINOGEN LIST

Rating: No evidence.

Species: Mouse/rat

Route: Feed  
CHRONIC EXPOSURE - MUTAGEN  
Species: Mouse  
Dose: 1 GM/L  
Cell Type: lymphocyte  
Mutation test: specific locus test  
Species: Hamster  
Dose: 1250 MG/L  
Cell Type: ovary  
Mutation test: Cytogenetic analysis  
Species: Hamster  
Dose: 20 UMOL/L  
Exposure Time: 5H  
Cell Type: ovary  
Mutation test: Cytogenetic analysis  
CHRONIC EXPOSURE - REPRODUCTIVE HAZARD  
Species: Pig  
Dose: 28 GM/KG  
Route of Application: Oral  
Exposure Time: (16W MALE)  
Result: Paternal Effects: Testes, epididymis, sperm duct.

Section 12 - Ecological Information  
No data available.

Section 13 - Disposal Considerations  
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION  
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information  
DOT  
Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.  
IATA  
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information  
EU ADDITIONAL CLASSIFICATION  
S: 22-24/25  
Safety Statements: Do not breathe dust. Avoid contact with skin

and eyes.

#### US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: Avoid contact and inhalation.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

#### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dorn & Hart Microedge, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.