Yellow-42

MATERIAL SAFETY DATA SHEET

24 Hour Emergency Number: 800-424-9300
24 Hour CHEMTREC Number: 800-424-9300

Approval Date: January 2, 1997 Cust: 11005001 Page: 1
Print Date: January 7, 2002 MSDS Number: 8321801 BL-15

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : COVON® YELLOW OXIDE
Synonyms : Pigment dispersion
Product Use/Class: No VOC aqueous colorant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

	CAS Number	% (Wt./Wt.)
C.I. Pigment Yellow 42 (Iron oxide)	051274-00-1	60 - 100 %

See Section 8 for Exposure Guidelines

3. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***:
Low hazard for usual industrial handling.

POTENTIAL HEALTH EFFECTS

Eye Contact:
Possibly irritating. May cause tearing, reddening and/or swelling.

Skin Contact:
Possibly irritating.

Inhalation:
Contains less than 1% by weight of ammonium hydroxide which may cause respiratory tract irritation.

Ingestion:
Possibly irritating.

General:
Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis producing materials such as

3. HAZARDS IDENTIFICATION (CONTINUED)

silica. Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

4. FIRST AID MEASURES

FIRST AID

Eye Contact:
In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Skin Contact:
Flush skin with plenty of water. Remove contaminated clothing. Obtain medical attention if irritation develops or persists.

Inhalation:
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Ingestion:
If swallowed, do NOT induce vomiting. Have victim drink 8-10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point: Not Determined
Flash Point Method: Not determined
Lower Explosive Limit: Not determined
Upper Explosive Limit: Not determined

OSHA Flammability Classification: None
Autoignition Temperature: Not Determined

Extinguishing Media:
In case of fire, use water (flood with water), dry chemical, CO2 or "alcohol" foam.

Fire Fighting Procedures:
As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Use personal protective equipment as described in Section 8. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater, or soil.

7. HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid contact with eyes, skin and clothing.

Storage:

Store in a cool, dry place. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

	Value	Limit	Reference
C.I. Pigment Yellow 42 (Iron			

Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Eye Protection:

Use chemical splash goggles.

Skin Protection:

Use impermeable gloves.

Other Protective Equipment:

A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	:	17 mm Hg @ 68°F
Vapor Density (Air = 1)	:	Is heavier than air
Specific Gravity	:	~1.8
Boiling Point	:	>212°F
pH @ 100.0%	:	8.4 to 9.5
Evaporation Rate	:	Not available

9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

Other Properties:
Yellow. Paste. Mild ammonia odor. Solubility in water: Dispersible.

10. STABILITY AND REACTIVITY

Stability:
This product is stable under normal storage conditions.

Hazardous Polymerization:
Will not occur under normal conditions.

Conditions To Avoid:
Not Applicable.

11. TOXICOLOGICAL INFORMATION

Component Toxicological Information:

C.I. Pigment Yellow 42 (Iron oxide)
Oral LD50 (rat): > 5,000 mg/kg

12. ECOLOGICAL INFORMATION

No product ecological data available

13. DISPOSAL CONSIDERATIONS

Disposal Method:
Waste must be disposed of in accordance with federal, state, provincial and local regulations. CONTAINER DISPOSAL: Empty containers by removing the top and inverting to allow all free flowing product to drain. To meet regulatory criteria, the container is considered empty when less than 3% remains in the container. Additional special handling is not typically required and the empty container can be discarded with other non-hazardous trash.

Note: Local disposal regulations may be more stringent and require additional restrictions or precautions. Customers should check with their local disposal company, municipal or state authority. Recycle of plastic or metal containers may require clean rather than empty containers. In this case the containers can be rinsed with water until the containers are considered generally product free.

13. DISPOSAL CONSIDERATIONS (CONTINUED)

14. TRANSPORT INFORMATION

U.S. DOT Transport Information

Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

OSHA:
This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

Clean Air Act Section 112:
This product contains the following components present at or above the OSHA de minimus level and listed as Hazardous Air Pollutants:

None

This product contains the following components present at or above the OSHA de minimus level and listed as Extremely Hazardous Air Pollutants:

None

SARA Section 302:
This product contains the following components listed as Extremely Hazardous Substances:

None

SARA Section 311/312:
Hazard Classifications: None

SARA Section 313:
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

None

TSCA:
This product or its components are listed in or exempt from the TSCA inventory requirements.

15. REGULATORY INFORMATION (CONTINUED)

This product contains the following non-proprietary substances subject to export notification under Section 12(b) of TSCA:

None

State Regulations

California (Proposition 65):

This product contains the following substances known to the State of California to cause cancer:

None

This product contains the following substances known to the State of California to cause adverse reproductive effects:

None

International Regulations

Summary of International Chemical Inventory Status

Canada	On inventory
Europe	On inventory
South Korea	On inventory
Australia	On inventory

16. OTHER INFORMATION

HMIS Ratings: Health - 1 Flammability - 1 Reactivity - 0
Ratings Key: 4 = Highest hazard, 0 = Lowest hazard,
* = Chronic health hazard, N = No rating for powders
NFPA Ratings: Health - 1 Flammability - 1 Reactivity - 0
Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, N = No rating for powders

Key to abbreviations used:

NA	Not applicable
NAV	Not available
NE	Not established
NJTSR No.	New Jersey Trade Secret Registry Number
®	Registered Trademark.
TM	Trademark.

Revision Summary:

The following MSDS sections were revised since the previous version October 25, 1995:

2. COMPOSITION/INFORMATION ON INGREDIENTS