844-1863 CHROMA-CHEM®YELLOW IRON OXIDE



 Material no.
 Version
 2.26 / US

 Specification
 139827
 Revision date Print Date
 04/28/2009

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : 844-1863 CHROMA-CHEM®YELLOW IRON OXIDE

Use of the Substance / : Non-aqueous colorant
Preparation : Manufactured by Evonik

Company : Evonik Degussa Corporation

379 Interpace Parkway Parsippany,NJ 07054

USA

Telephone : 973-541-8000

Telefax : 973-541-8040

US: CHEMTREC EMERGENCY

NUMBER

: 800-424-9300

CANADA: CANUTEC EMERGENCY NUMBER

613-996-6666

Product Regulatory Services : 973-541-8060

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-paste Color-yellow Odor-Sweet ether-like odor.

May cause eye, skin and respiratory tract irritation.

Combustible liquid and vapor.

POTENTIAL HEALTH EFFECTS

Eye contact

Irritating.

May cause tearing, reddening and/or swelling.

May injure eye tissue if not removed promptly.

May cause conjunctivitis.

Skin Contact

A moderate skin irritant based on testing of similar CHROMA-CHEM® base mixtures. Prolonged or repeated contact may cause irritation.

Prolonged skin contact with large amounts of ether acetates may cause drowsiness.

Inhalation

Possibly irritating.

Excessive inhalation of vapors may cause nasal and respiratory irritation, and may cause central

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nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness, and even death.

Ingestion

May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chronic Health Hazard

High vapor concentrations (3000 ppm) of propylene glycol monomethyl ether acetate caused upper respiratory irritation and liver and kidney effects in subchronic animal testing. The relevance of these results to humans is not known.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

2-methoxy-1-methylethyl acetate				
C	AS-No.	108-65-6	Percent (Wt./ Wt.)	30 - 60 %
C.I. Pigment Yellow 42 (Iron oxide)				
C	AS-No.	51274-00-1	Percent (Wt./ Wt.)	30 - 60 %
NJTSR No.56705700001-5384P				
С	AS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %

Other information

This material is classified as hazardous under OSHA regulations.

4. FIRST AID MEASURES

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.

Skin contact

Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If symptoms develop or persist, obtain medical attention. Wash clothing before reuse.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 30 minutes, while holding evelids apart.

Do not allow contaminated water to contact the unaffected eye or face during irrigation of an affected eye.

Obtain medical attention immediately.

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Ingestion

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

If the heart has stopped or breathing has stopped, trained personnel should begin cardiopulmonary resuscitation or artificial respiration immediately.

5. FIRE-FIGHTING MEASURES

Flash point 46.67 °C, 116 °F

Method: Setaflash Closed Cup

OSHA Flammability Classification Combustible Liquid

Suitable extinguishing media

Use water spray or fog, foam, dry chemical or CO2.

Specific hazards during fire fighting

Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Further information

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

Additional advice

Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. 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

Safe handling advice

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Storage

Requirements for storage areas and containers

Keep in a dry, cool place.

Keep container closed when not in use.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component occupational exposure guidelines

Other information

The AIHA WEEL for propylene glycol monomethyl ether acetate is 50 ppm TWA.

Engineering measures

Use explosion-proof ventilation equipment.

Personal protective equipment

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.

Hand protection

Use impermeable gloves.

Eye protection

Chemical resistant goggles must be worn.

Skin and body protection

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

Appearance

Form paste Color vellow

Odor Sweet ether-like odor.

Safety data

Boiling point/range > 143 °C

Flash point 46.67 °C

Method: Setaflash Closed Cup

Relative density 1.6

Solubility/qualitative Solubility in water: Negligible.

Viscosity, dynamic 74 - 94 KU (25 °C)

Solvents and Volatiles Data

% VOC (gm/l) 525

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Evaporation rate Slower than butyl acetate

10. STABILITY AND REACTIVITY

Conditions to avoid Avoid high temperatures and sources of ignition.

Materials to avoid oxidizing substances

11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity 2-methoxy-1-methylethyl acetate

108-65-6

LD50 Rat: 8532 mg/kg

C.I. Pigment Yellow 42 (Iron oxide)

51274-00-1

LD50 Rat: > 5000 mg/kg

NJTSR No.56705700001-5384P

Trade Secret

LD50 Rat: > 2000 mg/kg

Component Acute inhalation

toxicity

LC50 (rat) > 4345 ppm, 6 hours, vapor

related to substance: 2-methoxy-1-methylethyl acetate

Component Acute dermal toxicity 2-methoxy-1-methylethyl acetate

108-65-6

LD50 Rabbit: > 19000 mg/kg

(calculated) (literature value)

Component Repeated dose

toxicity

C.I. Pigment Yellow 42 (Iron oxide)

51274-00-1

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 silica.

Component General Toxicity

Information

2-methoxy-1-methylethyl acetate

108-65-6

High vapor concentrations (3000 ppm) of propylene glycol monomethyl ether acetate caused upper respiratory irritation and liver and kidney effects in subchronic animal testing. The relevance of these results to

humans is not known.

12. ECOLOGICAL INFORMATION

General Ecological Information No ecotoxicological studies are available.

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Advice on disposal 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 nonhazardous 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 mineral spirits

until the containers are considered generally product free.

14. TRANSPORT INFORMATION

Sea transport IMDG-Code

Class 3 UN-No 1263 Packaging group Ш F-E. S-E

Proper technical name (Proper shipping name)

PAINT RELATED MATERIAL

Air transport ICAO-TI/IATA-DGR

Class 3 UN-No 1263 Packaging group Ш Proper technical name (Proper shipping name)

Paint related material

Loading instructions/Remarks

IATA C **ERG-Code 3L** IATA P **ERG-Code 3L**

CFR INWTR In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

This applies for shipments by road and rail only.

CFR RAIL In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

This applies for shipments by road and rail only.

CFR ROAD In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

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15. REGULATORY INFORMATION

Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

NJTSR No.56705700001-6864P

CAS-No. Trade Secret Percent (Wt./ Wt.) 10 - 30 %

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are 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 listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

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State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

None listed

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

Europe (EINECS/ELINCS)
 USA (TSCA)
 Canada (DSL)
 Australia (AICS)
 Listed/registered
 Listed/registered
 Listed/registered

Japan (MITI)Korea (TCCL)Not listed/Not registeredListed/registered

Philippines (PICCS)
 Not listed/Not registered

China Listed/registered

16. OTHER INFORMATION

HMIS Ratings

Health: 2 Flammability: 2 Physical Hazard: 0

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.