

MATERIAL SAFETY DATA SHEET

866-5511 CHROMA-CHEM® R PHTHALO GREEN



Material no.		Version	1.25 / US
Specification	139005	Revision date	04/25/2009
Order Number		Print Date	04/28/2009
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	:	866-5511 CHROMA-CHEM® R PHTHALO GREEN
Use of the Substance / Preparation	:	Non-aqueous colorant
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-green** **Odor-Petroleum distillate odor.**

May cause eye, skin and respiratory tract irritation.
Flammable liquid and vapor.

POTENTIAL HEALTH EFFECTS

Eye contact

Severely irritating.
May cause tearing, reddening and/or swelling.
May injure eye tissue if not removed promptly.
Causes painful stinging or burning of eyes and lids, watering of eyes, conjunctivitis, opaqueness of cornea, possibly leading to loss of sight.

Skin Contact

Irritating.
Prolonged or repeated contact may result in defatting and drying of the skin causing skin irritation and dermatitis (rash).

Inhalation

Possibly irritating.
Excessive inhalation of solvent vapors may cause nasal and respiratory irritation and central

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

If misted, causes irritation of mucous membranes, nose, eyes, and throat. May cause coughing and difficulty in breathing.

Ingestion

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

Target Organs

Vapors may cause liver and kidney effects according to animal testing.

Chronic Health Hazard

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

High concentrations (0.1 to 0.2% in air) of ethyl benzene will irritate eyes, mucous membrane and respiratory tract, and will cause dizziness and a sense of constriction of the chest.

Suppliers of xylene have reported that high levels of exposure to xylene in some animal studies were reported to have affected the development of the embryo/fetus. These effects were often at levels which are toxic to the mother. The significance of these findings to human exposure has not been determined, particularly the exposure to the low levels of xylene found in this product.

Toluene may be harmful to the fetus based on laboratory animal studies. Intentional misuse by deliberate inhalation of toluene has been associated with liver, kidney and brain damage in humans. Overexposure to this material has apparently been found to cause the following effects in laboratory animals: Liver abnormalities, kidney damage, nasal damage, brain damage and high frequency hearing loss.

Some studies have linked exposure of carbon black dust to lung effects. IARC classifies carbon black as a Category 2B Carcinogen (known animal carcinogen, possible human carcinogen) based on inhalation studies. However, the manufacturers of carbon black state that epidemiologic studies of workers in the carbon black industry in the U.S. and W. Europe show no significant adverse health effects due to occupational exposure.

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

This product contains an ingredient that has been shown to produce mutagenic effects in in vivo testing.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Information on ingredients / Hazardous components**

Stoddard solvent; Low boiling point naphtha - unspecified			
CAS-No.	8052-41-3	Percent (Wt./ Wt.)	10 - 30 %
Distillates (petroleum), hydrotreated light; Kerosine - unspecified			
CAS-No.	64742-47-8	Percent (Wt./ Wt.)	1 - 5 %
NJTSR No.56705700001-5057P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
NJTSR No.56705700001-5055P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	5 - 10 %
ethylbenzene			
CAS-No.	100-41-4	Percent (Wt./ Wt.)	0.1 - 1 %

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xylene			
CAS-No.	1330-20-7	Percent (Wt./ Wt.)	1 - 5 %
2-methylpropan-1-ol; iso-butanol			
CAS-No.	78-83-1	Percent (Wt./ Wt.)	1 - 5 %
Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha			
CAS-No.	64742-89-8	Percent (Wt./ Wt.)	5 - 10 %
butan-1-ol; n-butanol			
CAS-No.	71-36-3	Percent (Wt./ Wt.)	1 - 5 %
isobutyl acetate			
CAS-No.	110-19-0	Percent (Wt./ Wt.)	1 - 5 %
Ligroine; Low boiling point naphtha			
CAS-No.	8032-32-4	Percent (Wt./ Wt.)	1 - 5 %
Carbon black, amorphous			
CAS-No.	1333-86-4	Percent (Wt./ Wt.)	0.01 - 1 %
toluene			
CAS-No.	108-88-3	Percent (Wt./ Wt.)	0.1 - 1 %

4. FIRST AID MEASURES**Inhalation**

Remove to fresh air if effects occur. Consult a physician.

Skin contact

Wash contaminated area with lukewarm gently flowing water for at least 20-30 minutes. Remove contaminated clothing, shoes and leather goods under running 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 eyelids apart.
Do not allow contaminated water to contact the unaffected eye or face during irrigation of an affected eye.
Consult a physician immediately.

Ingestion

Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal.
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. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

5. FIRE-FIGHTING MEASURES

Flash point	27.78 °C , 82 °F
	Method: Pensky-Martens C.C.
OSHA Flammability Classification	Flammable liquid

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Suitable extinguishing media

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

Specific hazards during fire fighting

Flammable 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

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

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component occupational exposure guidelines

- **Carbon black, amorphous**

CAS-No. 1333-86-4
Control parameters 3.5 mg/m3
3.5 mg/m3
3.5 mg/m3

Time Weighted Average (TWA):(ACGIH)
PEL:(OSHA Z1)
Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA
OEL)

- **Stoddard solvent; Low boiling point naphtha - unspecified**

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CAS-No. 8052-41-3
100 ppm
500 ppm
2900 mg/m³
100 ppm
525 mg/m³

Time Weighted Average (TWA):(ACGIH)
PEL:(OSHA Z1)

Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA OEL)

• ethylbenzene

CAS-No. 100-41-4
100 ppm
125 ppm
100 ppm
435 mg/m³
100 ppm
435 mg/m³
125 ppm
545 mg/m³

Time Weighted Average (TWA):(ACGIH)
Short Term Exposure Limit (STEL):(ACGIH)
PEL:(OSHA Z1)

Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA OEL)
Short Term Exposure Limit (STEL):(US CA OEL)

• xylene

CAS-No. 1330-20-7
100 ppm
435 mg/m³
100 ppm
150 ppm
100 ppm
435 mg/m³
300 ppm
150 ppm
655 mg/m³

PEL:(OSHA Z1)

Time Weighted Average (TWA):(ACGIH)
Short Term Exposure Limit (STEL):(ACGIH)
Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA OEL)
Ceiling Limit Value:(US CA OEL)
Short Term Exposure Limit (STEL):(US CA OEL)

• 2-methylpropan-1-ol; iso-butanol

CAS-No. 78-83-1
50 ppm
100 ppm
300 mg/m³
50 ppm
150 mg/m³

Time Weighted Average (TWA):(ACGIH)
PEL:(OSHA Z1)

Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA OEL)

• butan-1-ol; n-butanol

CAS-No. 71-36-3
20 ppm
100 ppm
300 mg/m³
50 ppm
150 mg/m³

Time Weighted Average (TWA):(ACGIH)
PEL:(OSHA Z1)

Ceiling Limit Value:(US CA OEL)

Skin designation:(US CA OEL)

Can be absorbed through the skin.

• isobutyl acetate

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CAS-No.	110-19-0	
	150 ppm	Time Weighted Average (TWA):(ACGIH)
	150 ppm	PEL:(OSHA Z1)
	700 mg/m3	
	150 ppm	Time Weighted Average (TWA)
	700 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)

• **Ligroine; Low boiling point naphtha**

CAS-No.	8032-32-4	
	300 ppm	Time Weighted Average (TWA):(ACGIH)

• **toluene**

CAS-No.	108-88-3	
	20 ppm	Time Weighted Average (TWA):(ACGIH)
	200 ppm	Time Weighted Average (TWA):(OSHA Z2)
	300 ppm	Ceiling Limit Value:(OSHA Z2)
	500 ppm	Maximum concentration:(OSHA Z2)
Short-time value	10 minutes	
	50 ppm	Time Weighted Average (TWA)
	188 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)
		Ceiling Limit Value:(US CA OEL)
	500 ppm	Short Term Exposure Limit (STEL):(US CA OEL)
	150 ppm	
	560 mg/m3	Skin designation:(US CA OEL)

Can be absorbed through the skin.

Other information

Exposure values for mineral spirits (CAS Nr 8052-41-3) are given as Stoddard solvent.

Exposure values for Aliphatic petroleum distillates (CAS nr 64742-47-8) are given as Stoddard solvent.

Engineering measures

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure.

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.

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Skin and body protection

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.

A safety shower and eye wash fountain should be readily available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	paste
Color	green
Odor	Petroleum distillate odor.

Safety data

Flash point	27.78 °C	
	Method: Pensky-Martens C.C.	
Relative density	1	
Solubility/qualitative	Solubility in water: Slight.	
Viscosity, dynamic	75 - 90 KU (25 °C)	
Solvents and Volatiles Data	% VOC (gm/l)	494
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
Hazardous decomposition products	Not applicable.

11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity	Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3 LD50 Rat: > 5000 mg/kg
	Distillates (petroleum), hydrotreated light; Kerosine - unspecified 64742-47-8 LD50 Rat: > 15000 mg/kg
	NJTSR No.56705700001-5057P Trade Secret LD50 Rat: 4450 mg/kg

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ethylbenzene
100-41-4
LD50 Rat: 3500 mg/kg

xylene
1330-20-7
LD50 Rat: 3523 mg/kg

2-methylpropan-1-ol; iso-butanol
78-83-1
LD50 Rat: 2500 mg/kg

butan-1-ol; n-butanol
71-36-3
LD50 Rat: 2460 mg/kg

isobutyl acetate
110-19-0
LD50 Rat: 13400 mg/kg

Ligroine; Low boiling point naphtha
8032-32-4
LD50 Rat: 5000 - 15000 mg/kg

Carbon black, amorphous
1333-86-4
LD50 Rat: > 10000 mg/kg

toluene
108-88-3
LD50 Rat: 5000 mg/kg

Component Acute inhalation
toxicity

Stoddard solvent; Low boiling point naphtha - unspecified
8052-41-3
LC50 Rat: > 5500 mg/m³ / 4 h

Distillates (petroleum), hydrotreated light; Kerosine - unspecified
64742-47-8
LC50 Rat: > 14100 mg/m³ / 4 h

Carbon black, amorphous
1333-86-4
LC50 Rat: 6750 mg/m³ / 4 h

Component Acute dermal toxicity

Stoddard solvent; Low boiling point naphtha - unspecified
8052-41-3
LD50 Rabbit: > 3000 mg/kg

Distillates (petroleum), hydrotreated light; Kerosine - unspecified
64742-47-8
LD50 Rabbit: > 2000 mg/kg

ethylbenzene

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100-41-4
LD50 Rabbit: 5000 mg/kg

xylene
1330-20-7
LD50 Rabbit: > 4300 mg/kg

2-methylpropan-1-ol; iso-butanol
78-83-1
LD50 Rabbit: 3400 mg/kg

butan-1-ol; n-butanol
71-36-3
LD50 Rabbit: 4200 mg/kg

isobutyl acetate
110-19-0
LD50 Rabbit: > 20000 mg/kg

toluene
108-88-3
LD50 Rabbit: 12124 mg/kg

Component Mutagenicity
assessment

Carbon black, amorphous
1333-86-4
This product contains one or more ingredients that have been shown to produce mutagenic effects in in vitro testing.

Component carcinogenicity
assessment

ethylbenzene
100-41-4
Contains a component which is classified as an IARC 2B carcinogen (possibly carcinogenic to humans).

Carbon black, amorphous
1333-86-4
Some studies have linked exposure of carbon black dust to lung effects. IARC classifies carbon black as a Category 2B Carcinogen (known animal carcinogen, possible human carcinogen) based on inhalation studies. However, the manufacturers of carbon black state that epidemiologic studies of workers in the carbon black industry in the U.S. and W. Europe show no significant adverse health effects due to occupational exposure.

Component Teratogenicity

xylene
1330-20-7
inhalative Rat: in maternally non-toxic doses
NOAEL (No Observed Adverse Effect Level) teratogenesis: 2.165 mg/l Method: OECD TG 414
Suppliers of xylene have reported that high levels of exposure to xylene in some animal studies were reported to have affected the development of the embryo/fetus. These effects were often at levels which are toxic to the mother. The significance of these findings to human exposure has not been determined, particularly the exposure to the low levels of xylene found in this product.

Component teratogenicity

xylene

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assessment 1330-20-7
Potential embryo-foetal toxicity and teratogenicity.

toluene
108-88-3
Toluene may be harmful to the fetus based on laboratory animal studies. Intentional misuse by deliberate inhalation of toluene has been associated with liver, kidney and brain damage in humans. Overexposure to this material has apparently been found to cause the following effects in laboratory animals: Liver abnormalities, kidney damage, nasal damage, brain damage and high frequency hearing loss.

Component General Toxicity Information
xylene
1330-20-7
Overexposure to xylene has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders of these organs in humans: kidney damage; mild, reversible liver effects; effects on hearing and cardiac sensitization.

12. ECOLOGICAL INFORMATION

General Ecological Information No ecotoxicological studies are available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Advice on disposal Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. **DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.**
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 mineral spirits until the containers are considered generally product free.

14. TRANSPORT INFORMATION

D.O.T. Road/Rail

Class 3
UN-No 1263

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Packing group III
Proper shipping name Paint related material

Sea transport IMDG-Code

Class 3
UN-No 1263
Packaging group III
EmS 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 III
Proper technical name (Proper shipping name)
Paint related material

Loading instructions/Remarks

IATA_C ERG-Code 3L
IATA_P ERG-Code 3L

15. REGULATORY INFORMATION**Information on ingredients / Non-hazardous components**

This product contains the following non-hazardous components

NJTSR No.56705700001-5756P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	10 - 30 %
NJTSR No.56705700001-5239P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	10 - 30 %
Dinonylphenoxy(polyethoxy)ethanol			
CAS-No.	68891-21-4	Percent (Wt./ Wt.)	1 - 5 %

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:

- ethylbenzene
CAS-No. 100-41-4
- xylene
1330-20-7
- toluene
108-88-3

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CERCLA Reportable Quantities

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

- xylene
CAS-No. 1330-20-7
Reportable Quantity 3361 lbs

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:

- butan-1-ol; n-butanol
CAS-No. 71-36-3
- xylene
CAS-No. 1330-20-7
- ethylbenzene
CAS-No. 100-41-4

Toxic Substances Control Act (TSCA)

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

- None listed

State Regulations

California Proposition 65

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

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

- toluene
CAS-No. 108-88-3

WARNING! This product contains a chemical known in the State of California to cause cancer.

- ethylbenzene
CAS-No. 100-41-4

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- Carbon black, amorphous
CAS-No. 1333-86-4

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) | Listed/registered |
| • USA (TSCA) | Listed/registered |
| • Canada (DSL) | Listed/registered |
| • Australia (AICS) | Listed/registered |
| • Japan (MITI) | Not listed/Not registered |
| • Korea (TCCL) | Not listed/Not registered |
| • Philippines (PICCS) | Listed/registered |
| • China | Not listed/Not registered |

16. OTHER INFORMATION

HMIS Ratings

Health :	2*
Flammability :	3
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

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