

MATERIAL SAFETY DATA SHEET

844-9955 CHROMA-CHEM®LAMP BLACK

LB



Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	1 / 10

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

Product information

Trade name : 844-9955 CHROMA-CHEM®LAMP BLACK LB
Use of the Substance / Preparation : Non-aqueous colorant
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-black** **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.

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 solvent vapors may cause nasal and respiratory irritation and central

MATERIAL SAFETY DATA SHEET

844-9955 CHROMA-CHEM®LAMP BLACK

LB



Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	2 / 10

nervous system effects including dizziness, weakness, fatigue, nausea, headache, 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.

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.

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.

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

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			
CAS-No.	108-65-6	Percent (Wt./ Wt.)	30 - 60 %
Carbon black, amorphous			
CAS-No.	1333-86-4	Percent (Wt./ Wt.)	10 - 30 %
Stoddard solvent; Low boiling point naphtha - unspecified			
CAS-No.	8052-41-3	Percent (Wt./ Wt.)	10 - 30 %
NJTSR No.56705700001-5055P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
Dinonylphenoxy(polyethoxy)ethanol			
CAS-No.	68891-21-4	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.

MATERIAL SAFETY DATA SHEET

844-9955 CHROMA-CHEM®LAMP BLACK

LB



Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	3 / 10

Skin contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly wash clothing, shoes and protective equipment before reuse or discard. Get medical attention if irritation develops or persists.

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.

Obtain medical attention immediately.

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 42.22 °C , 108 °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.

MATERIAL SAFETY DATA SHEET

844-9955 CHROMA-CHEM®LAMP BLACK

LB



Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	4 / 10

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	Time Weighted Average (TWA):(ACGIH)
Control parameters	3.5 mg/m3	PEL:(OSHA Z1)
	3.5 mg/m3	Time Weighted Average (TWA)
	3.5 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)

• Stoddard solvent; Low boiling point naphtha - unspecified

CAS-No.	8052-41-3	Time Weighted Average (TWA):(ACGIH)
	100 ppm	PEL:(OSHA Z1)
	500 ppm	
	2900 mg/m3	
	100 ppm	Time Weighted Average (TWA)
	525 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)

Other information

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

MATERIAL SAFETY DATA SHEET

844-9955 CHROMA-CHEM®LAMP BLACK

LB



Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	5 / 10

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	black
Odor	Sweet ether-like odor.

Safety data

Boiling point/range	> 143 °C
Flash point	42.22 °C Method: Setflash Closed Cup
Relative density	1.1 (25 °C)
Solubility/qualitative	Solubility in water: Negligible.
Viscosity, dynamic	70 - 90 KU (25 °C)
Solvents and Volatiles Data	% VOC (gm/l) 538.58
Evaporation rate	Slower than butyl acetate

MATERIAL SAFETY DATA SHEET**844-9955 CHROMA-CHEM®LAMP BLACK****LB**

Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	6 / 10

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 Carbon black, amorphous 1333-86-4 LD50 Rat: > 10000 mg/kg Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3 LD50 Rat: > 5000 mg/kg
Component Acute inhalation toxicity	LC50 (rat) > 4345 ppm, 6 hours, vapor related to substance: 2-methoxy-1-methylethyl acetate Carbon black, amorphous 1333-86-4 LC50 Rat: 6750 mg/m3 / 4 h Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3 LC50 Rat: > 5500 mg/m3 / 4 h
Component Acute dermal toxicity	2-methoxy-1-methylethyl acetate 108-65-6 LD50 Rabbit: > 19000 mg/kg (calculated) (literature value) Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3 LD50 Rabbit: > 3000 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	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

MATERIAL SAFETY DATA SHEET

844-9955 CHROMA-CHEM®LAMP BLACK

LB



Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	7 / 10

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 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.

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 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

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

MATERIAL SAFETY DATA SHEET**844-9955 CHROMA-CHEM®LAMP BLACK****LB**

Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	8 / 10

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. This applies for shipments by road and rail only.

15. REGULATORY INFORMATION**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

MATERIAL SAFETY DATA SHEET

844-9955 CHROMA-CHEM®LAMP BLACK

LB



Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	9 / 10

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 cancer.

- 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) | Listed/registered |
| • Philippines (PICCS) | Not listed/Not registered |
| • China | Listed/registered |
| • New Zealand | 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.

MATERIAL SAFETY DATA SHEET**844-9955 CHROMA-CHEM®LAMP BLACK****LB**

Material no.		Version	1.29 / US
Specification	139123	Revision date	11/01/2008
Order Number		Print Date	11/04/2008
		Page	10 / 10

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.