



SAFETY DATA SHEET

according to Commission Directive 2001/58/EC

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

Identification of the substance or preparation

Product trade name: **REMBRANDT BLACK**

Internal code: 45LB

Use of the substance/preparation

Application: Dye

Company/undertaking identification

Supplier: Epmar Corporation
13210 E. Barton Circle
Santa Fe Springs, CA 90605-3254
Phone: 562-946-8781
FAX: 562-944-9958
E-MAIL: info@epmarcorp.com
E-MAIL: she@quakerchem.com
(For Health and Safety Questions)

Emergency telephone number: * 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**QUAKER CHEMICAL CORPORATION: (800) 523-7010(Within US only)
Outside of US call (703) 527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the substance or preparation:

Product is a mixture of:

HAZARDOUS COMPONENTS

Components	CAS No.	EC No.	Weight %	Classification
Ethylene glycol monobutyl ether	111-76-2	203-905-0	1 - 5%	Xi;R36/38 Xn;R20/21/22
Diethylene glycol monomethyl ether	111-77-3	203-906-6	1 - 5%	Repr. Cat.3;R63

3. HAZARDS IDENTIFICATION

Indication of danger:

Not dangerous goods

Most important hazards:

4. FIRST AID MEASURES

General advice:

If symptoms persist, call a physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Skin contact:

Rinse immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Ingestion:

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

Inhalation:

Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Notes to physician:

Treat symptomatically.

Medical condition aggravated by exposure:

Dermatitis.

5. FIRE-FIGHTING MEASURES

Flash point (°C):

NA

Flash point method:

-

Explosion limits:

- lower:

Not applicable

- upper:

Not applicable

Suitable extinguishing media:

Use dry chemical, CO₂, water spray or "alcohol" foam

Extinguishing media which must not be used for safety reasons: High volume water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Carbon monoxide (CO)

Specific hazards: No information available

Unusual hazards: None known

Special protective equipment for fire-fighters: Standard procedure for chemical fires.

Specific methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Use personal protective equipment.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment.

Storage

Technical measures/storage conditions: Store at room temperature in the original container

Incompatible products: strong oxidizing agents

Safe storage temperature: 40-100 ° F

Shelf life: 12 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Ethylene glycol monobutyl ether

EU - Occupational
Exposure Directive
(98/24/EC) Indicative
Occupational Exposure
Limit Values (IOELV) - Skin
Absorbers

possibility of significant uptake through the skin

EU - Occupational Exposure Directive (98/24/EC) Indicative Occupational Exposure Limit Values (IOELV) - TWAs	= 246 mg/m ³ STEL = 50 ppm STEL
EU - Occupational Exposure Directive (98/24/EC) Indicative Occupational Exposure Limit Values (IOELV) - TWAs	= 20 ppm TWA = 98 mg/m ³ TWA
Austria - OEL - Skin Absorbers	Skin absorber
Austria - OEL - STEL	= 200 mg/m ³ STEL 30 min = 40 ppm STEL 30 min
Austria - OEL - TWA (MAK)	= 20 ppm MAK = 98 mg/m ³ MAK
Belgium - OEL -Skin Designation	Skin
Belgium - OEL - STEL	= 246 mg/m ³ VLE = 50 ppm VLE
Belgium - OEL - TWA (MAK)	= 123 mg/m ³ VLE = 25 ppm VLE
Czech Republic - OEL - TWA	= 100 mg/m ³ TWA
Denmark - OEL - Skin Absorbers	Potential for cutaneous absorption
Denmark - OEL - TWA	= 20 ppm TWA = 98 mg/m ³ TWA
Estonia - OEL - STEL	= 246 mg/m ³ STEL = 50 ppm STEL
Estonia - OEL - TWA	= 20 ppm TWA = 98 mg/m ³ TWA
Finland - OEL - Skin Absorbers	Potential for cutaneous absorption
Finland - OEL - STEL	= 250 mg/m ³ STEL = 50 ppm STEL
Finland - OEL - TWA	= 20 ppm TWA = 98 mg/m ³ TWA
France - OEL - Observations	Risk of cutaneous absorption
France - OEL - STEL	= 147.6 mg/m ³ VLE = 30 ppm VLE
France - OEL - TWA	= 2 ppm VME = 9.8 mg/m ³ VME
Germany OEL - TRGS 900	= 20 ppm TWA = 98 mg/m ³ TWA
Greece - OEL - TWA	= 120 mg/m ³ TWA = 25 ppm TWA
Hungary - OEL - Skin Absorbers	potential for cutaneous absorption
Hungary - OEL - STEL	= 246 mg/m ³ STEL
Hungary - OEL - TWA	= 98 mg/m ³ TWA
Iceland - OEL - STEL	= 246 mg/m ³ STEL = 50 ppm STEL

Iceland - OEL - TWA	= 100 mg/m ³ TWA = 20 ppm TWA
Ireland - OEL - STEL	= 246 mg/m ³ STEL = 50 ppm STEL
Ireland - OEL - TWA	= 20 ppm TWA = 98 mg/m ³ TWA
Italy - OEL - TWA	= 20 ppm TWA = 98 mg/m ³ TWA
Italy - OEL - STEL	= 246 mg/m ³ STEL = 50 ppm STEL
Italy - OEL - Skin Absorbers	skin - potential for cutaneous absorption
Israel - OEL - TWA	= 20 ppm TWA
Netherlands - OEL - STEL	= 246 mg/m ³ STEL = 50 ppm STEL
Netherlands - OEL - TWA	= 100 mg/m ³ MAC = 20 ppm MAC
Norway - OEL- TWA	= 10 ppm OEL = 50 mg/m ³ OEL
Poland - OEL- STEL	= 200 mg/m ³ NDSC _h
Portugal - OEL - TWA	= 20 ppm TWA
Spain - OEL - Skin Absorbers	skin - potential for cutaneous exposure
Spain - OEL - STEL (VLA-EC)	= 245 mg/m ³ VLA-EC = 50 ppm VLA-EC
Spain - OEL - TWA (VLA-ED)	= 20 ppm VLA-ED = 98 mg/m ³ VLA-ED
Spain - OEL - STEL (VLA-EC)	= 245 mg/m ³ VLA-EC = 50 ppm VLA-EC
Sweden - OEL - Skin Absorbers	Present
Sweden - OEL - STEL (STV)	= 100 mg/m ³ STV = 20 ppm STV
Sweden - OEL - TLV (LLV)	= 10 ppm LLV = 50 mg/m ³ LLV
Switzerland - OEL - STEL	= 400 mg/m ³ STEL = 80 ppm STEL
Switzerland - OEL- TWA	= 100 mg/m ³ MAK = 20 ppm MAK
ACGIH Exposure Limits:	20 ppm
Diethylene glycol monomethyl ether	
Finland - OEL - Skin Absorbers	Potential for cutaneous absorption
Finland - OEL - TWA	= 10 ppm TWA = 50 mg/m ³ TWA
Netherlands - OEL - TWA	= 45 mg/m ³ MAC = 9 ppm MAC

Further information: None

Exposure controls

Occupational exposure controls

Engineering measures: Ensure adequate ventilation.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection: Neoprene gloves - 0.75 mm - 30 min.
Eye protection: Safety glasses
Skin and body protection: Long sleeved clothing

Environmental exposure controls

Recommendations: none

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Physical state: Liquid
Color: black
Odour: Slight

Important health, safety and environmental information

Property	Result	Method
pH:	Not determined	ASTM D 1293-84
at	-	-
Boiling point/boiling range (°C):	100	ASTM D 1120-94
Flash point (°C):	NA	-
Flammability (solid, gas):	No data available	-
Explosive properties:		
- upper limit:	No data available	-
- lower limit:	No data available	-
Oxidising properties:	No data available	-
Vapour pressure:	No data available	-
Relative density:	1.048 (g/cm ³)	ASTM D 1298-88
at	15.5 (°C)	
Solubility:		
- water solubility:	Dispersible	-
- fat solubility:	Not determined	-
Partition coefficient (n-octanol/water, log Pow):	Not determined	-
Viscosity:	Not determined	ASTM D 445-88
at	40 (°C)	-
Vapour density:	No data available	-
Evaporation rate:	No data available	-

Other information

Property	Result	Method
Miscibility:	Not determined	-
Conductivity:	Not determined	-
Melting point/melting range (°C):	Not determined	-
Gas group:	Not determined	-
Auto-ignition temperature:	Not determined	-

Molecular weight: Not determined -
Decomposition temperature: Not determined -

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to avoid:

None known

Materials to avoid:

Strong acids and oxidising agents

Hazardous decomposition products:

None under normal use

Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 (oral/rat): No data - mg/kg

Long-term effects

Other long-term effects: No data available

Local effects

Oral: No data available

Skin irritation: No skin irritation

Eye irritation: Contact with eyes may cause irritation

Sensitization: May cause sensitization of susceptible persons

Additional toxicological information: None

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ethylene glycol monobutyl ether

Ecotoxicity - Fish Species Data = 1490 mg/L LC50 bluegill 96 h static
= 1650 mg/L LC50 goldfish 24 h

Diethylene glycol monomethyl ether

Ecotoxicity - Fish Species Data = 1000 mg/L LC50 rainbow trout 96 h
= 7500 mg/L LC50 bluegill 96 h static

Inhibitory effects: None known

Behaviour in sewage treatment plants: None known

Mobility

Distribution to environmental compartments: No data available

Surface tension: No data available

Persistence and degradability

BOD Not determined

Potential degradation: Not determined

Degradation half life: Not determined

Degradation in sewage treatment plants: Not determined

Bioaccumulative potential

Bioaccumulation: Not applicable

Other adverse effects

Ozone depletion potential (R-11 = 1): Not determined

Photochemical ozone creation potential: Not determined

Global warming potential: Not determined

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Dispose of in accordance with local regulations

Contaminated packaging: Dispose of as unused product.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly.

EWC waste disposal No.: Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

14. TRANSPORT INFORMATION

ADR

Class: Not classified

RID
Class: Not classified

IMO/IMDG
Class: Not classified

ICAO
Class: Not classified

IATA
Hazard Class: Not classified

15. REGULATORY INFORMATION

EC classification and labelling (67/548/EEC - 1999/45/EC)

Indication of danger: Not dangerous goods

R phrases:
None

S phrases:
None

National regulations

**Water endangering class
WGK (D):** No information available

Maladies Professionnelles (F): Not Listed

EC EINECS/ELINCS/NLP list: This product complies with EINECS.

16. OTHER INFORMATION

List of relevant R phrases

Further information:

**Recommended restrictions on
use:** No information available

Training advice: See our technical data sheet.

Further information: Contact manufacturer

Prepared by: Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Reason for revision: This data sheet contains changes from the previous version in section(s) 1

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. EPMAR Corporation ("EPMAR") assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of EPMAR.

End of Safety Data Sheet