

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 1 of 11

---

### **1. Product and Company Identification**

---

Product Name : WB SOLAR CHEM BLACK - GALLON  
Product Code : W3700-GL  
Recommended Use: Please refer to Product Information/Technical Data Sheet.

#### Company Identification:

Randolph Products Company  
33 Haynes Circle  
Chicopee, MA 01020

Information Phone: 413-592-4191  
Emergency Phone: ChemTel 800-255-3924

### **2. Hazards Identification**

---

#### EMERGENCY OVERVIEW

#### WARNING

Chronic Toxicity, (Carcinogenicity) Category 1



#### Potential Health Effects

##### Eye:

May cause mechanical irritation.

##### Skin:

May cause mechanical skin irritation.

##### Ingestion:

Not hazardous in normal industrial use.

##### Inhalation:

Not expected to cause effects from inhalation.

#### Chronic (Cancer) Information:

Contains Crystalline Silica. Long term overexposure to products containing Crystalline Silica may cause silicosis.

Crystalline Silica is listed as a carcinogen by the NTP and IARC. Contains CARBON BLACK, which is listed by the IARC as a Group 2B (possibly carcinogenic to humans). Not listed as a carcinogen by NTP, ACGIH, OSHA or the European Union.

There are no known human carcinogenic effects related to the PAH content in carbon blacks. Recent research has shown that the PAH content of carbon blacks is not released in biological fluids and thus not available for biological activity.

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 2 of 11

IARC: A component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: A component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: A component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:  
INFORMATION NOT AVAILABLE.

Reproduction Information:  
INFORMATION NOT AVAILABLE.

Aggravation of Pre-Existing Conditions:  
INFORMATION NOT AVAILABLE.

### **3. Composition/Information on Ingredients**

Component	CAS#	% by Wt.
* 2-BUTOXY ETHANOL	111-76-2	9
ACGIH TLV: 20 PPM TWA		
OSHA PEL: 50 PPM TWA (SKIN)		
OSHA VPEL: 25 PPM TWA (SKIN)		
TALC	14807-96-6	7
OSHA: 2 MG/M3		
ACGIH: 2 MG/M3		
SILICA GEL	63231-67-4	6
ACGIH TLV: 10 MG/M3 TWA		
OSHA PEL: 6 MG/M3 TWA		
MICROCRYSTALLINE SILICA (QUARTZ)	14808-60-7	5.043
ACGIH TLV: 0.10 MG/M3		
ACGIH TLV: 0.05 MG/M3, RESPIRABLE FRACTION		
OSHA PEL: 0.10 MG/M3, RESPIRABLE DUST		
NIOSH: 0.05 MG/M3 TWA, RESPIRABLE DUST		
* N-BUTANOL	71-36-3	5
ACGIH: 50 PPM "SKIN" TWA		
OSHA: 50 PPM CEILING		
DIMETHYL ETHANOL AMINE	108-01-0	3
SUPPLIER: 10 MG/M3 TWA		
SILICON DIOXIDE	112926-00-8	3
ACGIH: 10 MG/M3 TWA, TOTAL DUST		
OSHA: 20 MPPCF3 TWA		

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 3 of 11

---

1,2-PROPYLENE GLYCOL	57-55-6	1
AIHA WEEL: 10 MG/M3 TWA aerosol only		
AIHA WEEL: 50 PPM TWA total		
# CARBON BLACK	1333-86-4	1.017
ACGIH: 3.5 MG/M3 TWA		
OSHA: 3.5 MG/M3 TWA		

### **4. First Aid Measures**

---

#### Eyes:

Any material that contacts the eye should be washed out immediately with water. Flush with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

#### Skin:

Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

#### Ingestion:

Do NOT induce vomiting. Drink 1 or 2 glasses of milk or water to dilute. Call a poison control center or get medical attention immediately. Never give anything by mouth to an unconscious person.

#### Inhalation:

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

#### Note to Physicians:

INFORMATION NOT AVAILABLE.

### **5. Fire Fighting Measures**

---

#### Flammable Properties:

Flash Point: > 200 F

Method:

#### Explosive Limits:

Lower explosive limit: 1.1

Upper explosive limit: 12.6

#### Autoignition Temperature:

INFORMATION NOT AVAILABLE.

#### Hazardous Combustion Products:

INFORMATION NOT AVAILABLE.

#### Extinguishing Media:

Waterbased material will not burn until all water has boiled away. Residual solids and/or product container may support combustion. Use water, foam, dry chemical or CO2.

#### Firefighting Procedures:

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

# SAFETY DATA SHEET

## ***Randolph Products Company***

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 4 of 11

---

Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray.

### **6. Accidental Release Measures**

---

Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions:

Methods/Materials for Containment and Cleaning Up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/state/federal regulations.

### **7. Handling and Storage**

---

Handling:

Store in a cool, dry, well ventilated area. Keep containers tightly closed.

EMPTY CONTAINER PRECAUTIONS: Attention! This container is hazardous when empty. Follow label warnings even after

container is emptied since empty containers may retain product residues. Do not re-use empty container without professional cleaning for food, clothing or products. for human or animal consumption or where skin contact can occur.

Storage:

Prevent unauthorized access.

Store in a well ventilated place.

Keep container tightly closed.

Keep cool.

### **8. Exposure Controls/Personal Protection**

---

Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

Ventilation should be explosion proof.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 5 of 11

---

circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

### Personal Protective Equipment

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be

worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance

with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

#### Skin Protection:

Wear impervious gloves to prevent skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

#### Eye Protection:

Chemical safety goggles or glasses with side shields.

## **9. Physical and Chemical Properties**

---

Boiling Point: 212 F

Freezing Point: 32 F

Vapor Pressure:

NO INFORMATION AVAILABLE

Vapor Density:

HEAVIER THAN AIR

Solubility in Water:

SOLUBLE

Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: 1.145

pH Range: 8-10

Coating VOC: 2.65 lb/g1

Material VOC: 1.68 lb/g1

Odor:

Mild acrylic odor.

Appearance:

Liquid.

Partition Coefficient:

INFORMATION NOT AVAILABLE.

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 6 of 11

---

### **10. Stability and Reactivity**

---

Chemical Stability (Conditions to Avoid):

Stable under normal storage/use conditions.

Incompatibility:

Avoid strong oxidizing agents, acids and alkalies.

Hazardous Decomposition Products:

Smoke, soot and carbon dioxide, carbon monoxide.

Hazardous Polymerization:

Will not occur under normal conditions.

---

### **11. Toxicological Information**

---

Eye Irritation/Damage:

Component 108-01-0:

Eye irritation, Category 1

Skin Irritation/Damage:

Component 108-01-0:

LD50: 1100 mg/kg, rat. Category 4

Extremely corrosive to skin, Category 1B

Component 71-36-3:

LD50: 3,400 mg/kg, rabbit. Not categorized.

Acute Oral Toxicity:

Component 108-01-0:

LD50: 1183 mg/kg, rat. Category 4

Component 1333-86-4:

LD50: >8000 mg/kg, rat. Category 5

Component 14808-60-7:

LD50: >5000 mg/kg, rat. Category 5

Component 71-36-3:

LD50: 790 mg/kg, rat. Category 4

Component 111-76-2:

LD50: 1300 mg/kg, rat. Category 4

Acute Inhalation Toxicity:

Component 108-01-0:

LC50: 6 mg/l, rat. Category 3

Respiratory/Skin Sensitization:

Component 108-01-0:

No evidence of respiratory or skin sensitization.

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 7 of 11

---

### Carcinogenicity:

Component 108-01-0:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 1333-86-4:

Listed by IARC as a group 2B carcinogen (possibly carcinogenic to humans).

Carbon Black is not listed as a carcinogen by

NTP, OSHA or ACGIH. GHS Category 2.

Component 14808-60-7:

Listed by IARC as a group 1 carcinogen (carcinogenic to humans), and as a known carcinogen by NTP. GHS Category 1A.

### Reproductive Toxicity:

Component 108-01-0:

No evidence of human reproductive toxicity.

### Germ Cell Mutagenicity:

Component 108-01-0:

No data

### Aspiration Toxicity:

Component 108-01-0:

Not classified as an Aspiration Hazard.

Component 71-36-3:

Not classified as an Aspiration Hazard.

Component 111-76-2:

Aspiration Hazard; Category 1

### STOT-single exposure:

Component 108-01-0:

Transient target organ effects (Category 3);

Respiratory tract irritation.

Component 71-36-3:

No data Component 111-76-2:

No data

### STOT-repeated exposure:

Component 108-01-0:

No data

Component 71-36-3:

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 8 of 11

---

No data Component 111-76-2:

No data

Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

INFORMATION NOT AVAILABLE.

## **12. Ecological Information**

---

Environmental Toxicity:

Component 108-01-0:

LC50: 146.63 mg/l (fish); EC50: 98.37 mg/l (daphnia); EC50: 66.08 mg/l (algae)

Component 1333-86-4:

LC50: <1000 mg/l (fish); EC50: <5600 mg/l (daphnia); EC50: <10,000 mg/l (algae)

Persistence & degradability:

Component 108-01-0:

Readily biodegradable

Component 1333-86-4:

Carbon Black is essentially elemental carbon & cannot be further biodegraded by microorganisms.

Bioaccumulative Potential:

Component 108-01-0:

Does not bioaccumulate

Component 1333-86-4:

Not expected to bioaccumulate.

Mobility in soil:

Component 108-01-0:

No data

Other Adverse Ecological Effects:

No information

Component 108-01-0:

Harmful to aquatic life



# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 9 of 11

---

### **13. Disposal Considerations**

---

#### Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws. The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Federal Regulations may apply to empty container. State and/or local regulations may be different.

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Be sure to contact the appropriate government environmental agencies if further guidance is required.

#### Contaminated Materials:

INFORMATION NOT AVAILABLE.

### **14. Transport Information**

---

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO) Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):

DOT (USA) Shipping Name: Not regulated by DOT/IATA

UN/NA ID No: n/a

Hazard Class: n/a

Packing Group: n/a

UN Number:

UN Shipping Name:

INFORMATION NOT AVAILABLE.

Transport Hazard Class:

Packing Group:

#### Environmental Hazards:

INFORMATION NOT AVAILABLE.

#### Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)

#### Special Precautions for User:

INFORMATION NOT AVAILABLE.

# SAFETY DATA SHEET

## **Randolph Products Company**

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 10 of 11

---

### **15. Regulatory Information**

---

U.S. Federal Regulations:

TSCA: All components of this material are on the US TSCA 8(b) Inventory or are exempt from listing.

OSHA:

This product is hazardous under OSHA's Hazard Communication Std. Not regarded as a health hazard under current legislation.

CERCLA: SARA Hazard Category:

INFORMATION NOT AVAILABLE.

Section 313:

"\*" Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:

"#" Indicates a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

### **16. Other Information**

---

Date Revised: 06/01/15

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

# SAFETY DATA SHEET

## ***Randolph Products Company***

WB SOLAR CHEM BLACK - GALLON

Date Printed: 6/1/2015

Page 11 of 11

---

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate.

However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet