

# SAFETY DATA SHEET

## **Randolph Products Company**

MIL-PRF-85285E TYPE 1 AND 2 CLASS H COMPONENT B GLOSS-QT

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

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Product Name : MIL-PRF-85285E TYPE 1 AND 2 CLASS H COMPONENT B GLOSS-QT

Product Code : 852851-1CBGL-QT

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

#### 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**

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#### EMERGENCY OVERVIEW

Acute Toxicity, Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2B

Chronic, Respiratory Sensitizer, Category 1, Skin Sensitizer, Category 1b



#### Potential Health Effects

##### Eye:

May cause slight to mild irritation. May cause corneal opacity (clouding of eye surface). Can cause burning sensation, tearing and redness.

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### Skin:

May cause slight to mild irritation. Prolonged or repeated contact may dry the skin and lead to irritation (i.e. dermatitis). Can cause redness, itching and burning sensation.

### Ingestion:

Irritating to the mouth, throat and stomach. May cause nausea, vomiting, pain and stomach upset (e.g. diarrhea). Can cause dizziness, faintness, headache and incoordination.

### Inhalation:

Dizziness, breathing difficulty, headaches & loss of coordination.

### Chronic (Cancer) Information:

INFORMATION NOT AVAILABLE.

### 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.
HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (SUPPLIER) 0.5 mg/m <sup>3</sup> - TWA (SUPPLIER) 1.00 mg/m <sup>3</sup> - STEL	28182-81-2	66.829
TERTIARY BUTYL ACETATE ACGIH: 200 PPM TWA OSHA: 200 PPM TWA	540-88-5	24
ACETONE ACGIH TLV: 500 PPM TWA ACGIH TLV: 750 PPM STEL OSHA PEL: 1000 PPM TWA OSHA VPEL: 750 PPM TWA OSHA VPEL: 1000 PPM STEL	67-64-1	4
METHYL NORMAL AMYL KETONE OSHA PEL 100 PPM - TWA OSHA VPEL 100 PPM -TWA ACGIH TLV 50 PPM - TWA ACGIH TLV 233 MG/M <sup>3</sup> - TWA	110-43-0	3
METHYL ETHYL KETONE ACGIH: 200 PPM TWA OSHA: 200 PPM TWA	78-93-3	2
HEXAMETHYLENE-1,6-DIISOCYANATE ACGIH TLV: 0.005 PPM - TWA (SUPPLIER): 0.02 PPM - CEILING	822-06-0	.47

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

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#### 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.

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

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#### Flammable Properties:

Flash Point: -4 F

Method: TCC

#### Explosive Limits:

Lower explosive limit: 1.1

Upper explosive limit: 12.8

#### Autoignition Temperature:

INFORMATION NOT AVAILABLE.

#### Hazardous Combustion Products:

INFORMATION NOT AVAILABLE.

#### Extinguishing Media:

Dry chemical, CO2, Halon, Foam

#### Firefighting Procedures:

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

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. Vapors are heavier than air and can travel some distance away and flash back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

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

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Small Spill:

See Information for Large Spill, below:

Large Spill:

Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all sources of ignition. Use non-sparking tools and/or explosion proof equipment. Cover spills with absorbent and sweep or scoop up and place in closed chemical waste containers. Dispose of according to local, state and federal regulations.

Environmental Precautions:

INFORMATION NOT AVAILABLE.

Methods/Materials for Containment and Cleaning Up:

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.

## **7. Handling and Storage**

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Handling:

Keep container closed. Do not store near heat sources or open flames.

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 use heat, sparks, open flames, torches, cigarettes on or near empty containers. 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:

INFORMATION NOT AVAILABLE.

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

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Airborne Exposure Limits:

INFORMATION NOT AVAILABLE.

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

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### 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**

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Boiling Point: 133 F

Melting Point:

INFORMATION NOT AVAILABLE.

Freezing Point: n/a

Vapor Pressure:

INFORMATION NOT AVAILABLE.

Vapor Density:

INFORMATION NOT AVAILABLE.

Solubility in Water:

NEGLIGIBLE

Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: 1.035

Coating VOC: 0.61 lb/gl

Material VOC: 0.4 lb/gl

Odor:

Mild solvent odor.

Appearance:

INFORMATION NOT AVAILABLE.

Partition Coefficient:

INFORMATION NOT AVAILABLE.

## **10. Stability and Reactivity**

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Chemical Stability (Conditions to Avoid):

INFORMATION NOT AVAILABLE.

Incompatibility:

Avoid strong oxidizing agents, acids and alkalies.

Hazardous Decomposition Products:

INFORMATION NOT AVAILABLE.

Hazardous Polymerization:

Will not occur under normal conditions.

### **11. Toxicological Information**

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Eye Irritation/Damage:

SEE SECTION 3 Component 28182-81-2:

Mild eye irritation, Category 2b

Component 67-64-1:

Mild eye irritation, Category 2b

Component 110-43-0:

Mild eye irritation, Category 2b

Component 540-88-5:

Based on available data, the classification criteria are not met.

Component 822-06-0:

Mild eye irritation, Category 2b

Skin Irritation/Damage:

Component 28182-81-2:

LD50: >2000 mg/kg, rat. Category 5

Mild skin irritation, possible skin sensitizer.

Component 67-64-1:

LD50: 7426 mg/kg, rat. Category 5

Mildly irritating to skin.

Component 110-43-0:

LD50: >2000 mg/kg, rat. Category 5

Component 540-88-5:

LD50: >2000 mg/kg, rabbit. Category 5.

Component 822-06-0:

LD50: >2000 mg/kg, rat. Category 5

Mild skin irritation, possible skin sensitizer.

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### Acute Oral Toxicity:

Component 28182-81-2:

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

Component 67-64-1:

LD50: 5800 mg/kg, rat. Category 5

Component 110-43-0:

LD50: 1670 mg/kg, rat. Category 4

Component 540-88-5:

LD50: 4,500 mg/kg, rat. Category 5

Component 822-06-0:

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

### Acute Inhalation Toxicity:

Component 28182-81-2:

LC50: 1.18, rat. Category 4

Component 67-64-1:

LC50: 16000 mg/l, rat. Category 4

Component 110-43-0:

LD50: >16.7 mg/kg, rat. Category 4

Component 540-88-5:

LC50: 12.52 mg/l, rat. Category 2

Component 822-06-0:

LC50: 1.18, rat. Category 4

### Respiratory/Skin Sensitization:

Component 28182-81-2:

Caused skin sensitization in animal studies. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

Component 67-64-1:

No evidence of respiratory or skin sensitization.

Component 110-43-0:

No evidence of respiratory or skin sensitization.

Component 540-88-5:

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No evidence of respiratory or skin sensitization.

Component 822-06-0:

Caused skin sensitization in animal studies. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

Carcinogenicity:

Component 28182-81-2:

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

Component 67-64-1:

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

Component 110-43-0:

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

Component 540-88-5:

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

Component 822-06-0:

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

Reproductive Toxicity:

Component 28182-81-2:

No evidence of human reproductive toxicity.

Component 67-64-1:

No evidence of human reproductive toxicity.

Component 110-43-0:

No evidence of human reproductive toxicity.

Component 540-88-5:

No evidence of human reproductive toxicity.

Component 822-06-0:

No evidence of human reproductive toxicity.



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Germ Cell Mutagenicity:

Component 28182-81-2:

No data

Component 67-64-1:

No data

Component 110-43-0:

No data

Component 540-88-5:

No data

Component 822-06-0:

No data

Aspiration Toxicity:

Component 28182-81-2:

Not classified as an Aspiration Hazard.

Component 67-64-1:

Not classified as an Aspiration Hazard.

Component 110-43-0:

Not classified as an Aspiration Hazard.

Component 540-88-5:

Not classified as an Aspiration Hazard.

Component 822-06-0:

Not classified as an Aspiration Hazard.

STOT-single exposure

Component 28182-81-2:

No data

Component 67-64-1:

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No Data

Component 110-43-0:

No data

Component 540-88-5:

Transient target organ effects (Category 3);

Respiratory tract irritation.

Component 822-06-0:

No data

STOT-repeated exposure

Component 28182-81-2:

Repeated exposure affected lungs, nasal cavities

Component 67-64-1:

No data

Component 110-43-0:

No data

Component 540-88-5:

No data

Component 822-06-0:

Repeated exposure affected lungs, nasal cavities

Routes of Exposure:

INFORMATION NOT AVAILABLE.

## **12. Ecological Information**

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Environmental Toxicity:

Component 28182-81-2:

LC50: >100 mg/l (fish); EC50: >100 mg/l (daphnia); EC50: 100 mg/l (algae); EC50: <10 mg/l (bacteria)

Component 67-64-1:

LC50: 6100 mg/l (fish); EC50: 7630 mg/l (daphnia)

Component 110-43-0:

LC50: 131 mg/l (fish); EC50: >90.1 mg/l (daphnia); EC50: 98.2 mg/l (algae); EC50: <10 mg/l (bacteria)

Component 540-88-5:

Low toxicity: fish, daphnia; EC50: 16 mg/l (algae); EC50: 1.5 mg/l (bacteria)

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Component 822-06-0:

LC50: >100 mg/l (fish); EC50: >100 mg/l (daphnia); EC50: 100 mg/l (algae); EC50: <10 mg/l (bacteria)

Persistence & degradability:

Component 28182-81-2:

Not readily biodegradable

Component 67-64-1:

Readily biodegradable

Component 110-43-0:

Readily biodegradable

Component 540-88-5:

Inherently biodegradable

Component 822-06-0:

Not readily biodegradable

Bioaccumulative potential:

Component 28182-81-2:

No Data

Component 67-64-1:

Does not bioaccumulate

Component 110-43-0:

No Data

Component 540-88-5:

Not expected to bioaccumulate

Component 822-06-0:

No Data

Mobility in soil:

Component 28182-81-2:

No data

Component 67-64-1:

no data

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Component 110-43-0:

No data

Component 540-88-5:

No data

Component 822-06-0:

No data

Other Adverse Ecological Effects:

Component 540-88-5:

Harmful to aquatic life.

### **13. Disposal Considerations**

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Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws. When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability. 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.

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### **14. Transport Information**

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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: Paint Related Material

UN/NA ID No: UN1263

Hazard Class: Class 3 (IATA/49CFR)

Packing Group: II

Environmental Hazards:

INFORMATION NOT AVAILABLE.

Marine Pollutant:

INFORMATION NOT AVAILABLE.

Special Precautions for User:

INFORMATION NOT AVAILABLE.

### **15. Regulatory Information**

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U.S. Federal Regulations:

INFORMATION NOT AVAILABLE.

OSHA:

This product is hazardous under OSHA's Hazard Communication Std.

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 Clean Air Act Hazardous Air Pollutant (HAP).

Volatile Organic Compounds:

INFORMATION NOT AVAILABLE.

### **16. Other Information**

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Date Revised: 01/14/15

Prepared By: INFORMATION NOT AVAILABLE.

Information Contact: INFORMATION NOT AVAILABLE.

Manufacturer Disclaimer:

INFORMATION NOT AVAILABLE.