



# SAFETY DATA SHEET

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REVISION NUMBER: 6

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

### Product identifier

Product Name DOLPHON CB-1128B

### Other means of identification

Product Code CB-1128B

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use No information available.

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### MANUFACTURED BY:

VON ROLL USA, INC.

P.O. BOX 1404 NEW HAVEN, CT 06505

BUSINESS: (518) 344-7100

EMERGENCY: (518) 395-3310 JOHN C. DOLPH, a Von Roll Company

320 New Road, MONMOUTH JUNCTION, NJ 08852

BUSINESS: (732) 329-2333

EMERGENCY: (518) 395-3310

### Emergency telephone number

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

#### Emergency Overview

Danger

**Hazard statements**

Harmful if inhaled  
 Causes skin irritation  
 Causes serious eye irritation  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 May cause an allergic skin reaction  
 Suspected of causing cancer  
 May cause respiratory irritation  
 May cause damage to organs through prolonged or repeated exposure



**Appearance** No information available

**PHYSICAL STATE** Liquid

**ODOR** No information available

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Contaminated work clothing should not be allowed out of the workplace  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see .? on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Other Information

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CAS No.	APPROX. WEIGHT PERCENT	TRADE SECRET
Methylene Bisphenylene Diisocyanate 101-68-8	101-68-8	30 - 60	
Diphenylmethane Diisocyanate 26447-40-5	26447-40-5	5 - 10	

#### 4. FIRST AID MEASURES

##### First aid measures

<b>EYE CONTACT</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>SKIN CONTACT</b>	Wash skin with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>INGESTION</b>	Clean mouth with water and drink afterwards plenty of water.

##### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

##### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

##### Special Hazards:

None Known.

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

##### Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

##### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.  
**Incompatible materials** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	ACGIH TLV	OSHA PEL-TWA	NIOSH IDLH
Methylene Bisphenylene Diisocyanate 101-68-8	TWA: 0.005 ppm	MAXIMUM: 0.02	IDLH: 75 mg/m <sup>3</sup> Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m <sup>3</sup> 10 min TWA: 0.005 ppm TWA: 0.05 mg/m <sup>3</sup>
Diphenylmethane Diisocyanate 26447-40-5	-	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m <sup>3</sup>	-

**Appropriate engineering controls**

**ENGINEERING CONTROLS:** Exhaust ventilation.  
Showers.  
Eyewash stations.  
Use in a well ventilated area.

**Individual protection measures, such as personal protective equipment**

Von Roll recommends evaluation and selection of appropriate engineering controls (such as ventilation and eyewash/safety shower) as well as appropriate personal protective equipment (such as respiratory protection, protective gloves, eye protection) for safely handling this material. The following guidelines should be considered in this process.

- EYE PROTECTION:** Splash Goggles. Face shield.
- GLOVES:** Rubber gloves.
- VENTILATION:** Use only in well ventilated area. Localized mechanical ventilation.
- RESPIRATORY PROTECTION:** Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded, or over exposure is likely. Scott air pack.
- OTHER PERSONAL PROTECTION DATA:** Rubber apron or other chemical-resistant apron. Wear clean, body-covering clothing.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>PHYSICAL STATE</b>	Liquid	<b>ODOR:</b>	SLIGHT MUSTY
<b>Appearance</b>	No information available	<b>ODOR THRESHOLD</b>	UNKNOWN
<b>DESCRIPTION:</b>	DARK BROWN	<b>(PPM):</b>	
 <b>PROPERTIES</b>		 <b>Remarks • Method</b>	
<b>pH</b>	<b>Values</b> No information available		
<b>Melting point/freezing point</b>	No information available		
<b>Boiling point / boiling range</b>	No information available		

Flash point	198.8 °C / 390 °F
EVAPORATION RATE	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
VAPOR PRESSURE	No information available
VAPOR DENSITY	No information available
SPECIFIC GRAVITY	1.24
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

**Other Information**

Softening point	No information available
DENSITY	No information available
Bulk density	No information available

## 10. STABILITY AND REACTIVITY

**REACTIVITY**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**CONDITIONS TO AVOID**

Keep away from heat, sparks and flame. Temperatures above 85 F.

**Incompatible materials**

Avoid contact with acidic, basic or oxidizing agents. Do not expose to amines. Reacts with water.

**Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide. Toxic fumes. Oxides of nitrogen. Hydrogen cyanide. Organic isocyanates.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>PRODUCT INFORMATION</b>	No data available
<b>Inhalation</b>	No data available.
<b>EYE CONTACT</b>	No data available.
<b>SKIN CONTACT</b>	No data available.
<b>INGESTION</b>	No data available.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Oral LD50	Dermal LD50	Inhalation LC50

Methylene Bisphenylene Diisocyanate 101-68-8	= 31600 mg/kg ( Rat ) = 9200 mg/kg ( Rat ) > 7400 mg/kg ( Rat )	> 6200 mg/kg ( Rabbit )	= 369 mg/m <sup>3</sup> ( Rat ) 4 h = 0.369 mg/L ( Rat ) 4 h
Diphenylmethane Diisocyanate 26447-40-5	> 7400 mg/kg ( Rat )	> 6200 mg/kg ( Rabbit )	= 0.369 mg/L ( Rat ) 4 h

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	ACGIH	IARC	NTP	OSHA
Methylene Bisphenylene Diisocyanate 101-68-8	-	Group 3	-	-
Diphenylmethane Diisocyanate 26447-40-5	-	Group 3	-	-

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - PRODUCT INFORMATION**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 40424 mg/kg  
ATEmix (dermal) 7628 mg/kg mg/L

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Acute Algae Toxicity:	Acute Fish Toxicity:	Crustacea
Methylene Bisphenylene Diisocyanate 101-68-8	3230: 96 h Skeletonema costatum mg/L EC50	-	1000: 24 h Daphnia magna mg/L EC50
Diphenylmethane Diisocyanate 26447-40-5	3230: 96 h Skeletonema costatum mg/L EC50	-	1000: 24 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Partition coefficient
Methylene Bisphenylene Diisocyanate 101-68-8	4.5
Diphenylmethane Diisocyanate 26447-40-5	4.5

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

**EPA HAZARDOUS WASTE DISPOSAL CODE:** Not regulated.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	RCRA Classification:	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methylene Bisphenylene Diisocyanate 101-68-8	-	-	-	-
Diphenylmethane Diisocyanate 26447-40-5	-	-	-	-

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Methylene Bisphenylene Diisocyanate 101-68-8	-	-	-	-
Diphenylmethane Diisocyanate 26447-40-5	-	-	-	-

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	California Hazardous Waste Status
Methylene Bisphenylene Diisocyanate 101-68-8	-
Diphenylmethane Diisocyanate 26447-40-5	-

**14. TRANSPORT INFORMATION**

**DOT SHIPPING NAME:** RESIN COMPOUND, LIQUID, NOT DOT REGULATED  
**DOT HAZARD CLASS:** NOT DOT REGULATED.  
**DOT PACKING GROUP:** NOT DOT REGULATED.  
**DOT LABEL(S):** NONE NOT DOT REGULATED.  
**UN/NA NUMBER:** NOT DOT REGULATED.  
**PLACARDS:** NONE NOT DOT REGULATED.  
**ICAO/IATA:** NOT REGULATED  
**MARINE POLLUTANT:** NONE  
**NMFC CLASSIFICATION:** CLASS 55

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>ACUTE HEALTH HAZARD</b>	No
<b>FIRE HAZARD</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>REACTIVE HAZARD</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methylene Bisphenylene Diisocyanate 101-68-8	-	-	-	-
Diphenylmethane Diisocyanate 26447-40-5	-	-	-	-

**CERCLA**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Hazardous Substances RQs	CERCLA/SARA RQ
Methylene Bisphenylene Diisocyanate 101-68-8	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ
Diphenylmethane Diisocyanate 26447-40-5	-	-

**US State Regulations**

**CALIFORNIA PROPOSITION 65**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CALIFORNIA PROPOSITION 65
Methylene Bisphenylene Diisocyanate 101-68-8	-
Diphenylmethane Diisocyanate 26447-40-5	-

**U.S. State Right-to-Know Regulations**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	New Jersey Right-to-Know List:	MA Right to Know Law:	Pennsylvania Right to Know List
Methylene Bisphenylene Diisocyanate 101-68-8	X	X	X

Diphenylmethane Diisocyanate 26447-40-5	X	X	-
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**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION**

**NFPA RATING:** HEALTH 3 , FLAMMABILITY 1 , INSTABILITY 1  
**HMIS CLASSIFICATION:** HEALTH \*3 , FLAMMABILITY 1 , PHYSICAL HAZARD 1

**Prepared By** Santino M. Cardella  
**Revision Date** 22-Apr-2015

**Revision Note**  
 No information available

**Disclaimer**

The information provided in this Material 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.

**\*\*\*END OF MSDS\*\*\***