

1. PRODUCT NAME AND COMPANY INFORMATION

PRODUCT CODE: CWDGBSIDE
TRADE NAME: Concrete Welder Dark Gray B Side
MANUFACTURER: Roklin Systems, Inc.
ADDRESS: 300 E. Shell Rd. Ventura, CA 93001
PHONE NUMBER: 877-353-9738
EMERGENCY PHONE: 805-616-8763
FAX NUMBER: 805-204-4145
ROKLIN EMERGENCY PHONE: 805-256-7682



2. COMPOSITION / INFORMATION ON INGREDIENTS

Nature Diphenylmethane-diisocyanate prepolymer
Hazardous Components in Product for EC
Type of product: Substance Diphenylmethane-diisocyanate, isomers and homologues
Hazardous components Diphenylmethane-diisocyanate, isomers and homologues
Concentration [wt.-%]: ca. 100
CAS-No.: 9016-87-9
Classification (1272/2008/CE): Acute Tox. 4 Inhalative H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Sens. Resp. 1 H334 Skin Sens. 1 H317 Carc. 2 H351 STOT SE 3 H335 STOT RE 2 Inhalative H373
Specific threshold concentration (GHS):
Sens. Resp. 1 H334 $\geq 0,1$ %
Eye Irrit. 2 H319 ≥ 5 %
Skin Irrit. 2 H315 ≥ 5 %
STOT SE 3 H335 ≥ 5 %
Classification (67/548/EEC): Carc.Cat.3 R40 Xn R20 R42/43 R48/20 Xi R36/37/38
Classification/labeling analogous to Index No.: 615-005-00-9
Specific threshold concentration
Xn R42 0,1 - < 1 %
Xn R40, R42/43 1 - < 5 %
Xn R36/37/38, R40, R42/43 5 - < 10 %
Xn R36/37/38, R40, R42/43, R48/20 10 - < 25 %
Xn R20, R36/37/38, R40, R42/43, R48/20 ≥ 25 %

3. HAZARD IDENTIFICATION

Classification (1272/2008/CE): No classification in accordance with the Directive (EC) No. 1272/2008.
Classification (2006/121/EC, 1999/45/EC): No classification according to EC Directives 2006/121/EC or 1999/45/EC.
Labeling (1272/2008/CE): No labeling necessary according to the Directive (EC) No. 1272/2008.
Labeling (2006/121/EC, 1999/45/EC): No labeling necessary according to EC Directives 2006/121/EC or 1999/45/EC.

4. FIRST AID MEASURES

FIRST AID INHALATION: Low volatility and vapor pressure of product produces minimal fumes. Remove subject to fresh air.
FIRST AID SKIN: Frequent and prolonged contact can cause irritation/dermatitis; Wash with soap and water.
FIRST AID EYES: Can cause irritation. Flush with water for 15 minutes; Seek medical attention if rash or burning sensation develops.
FIRST AID INGESTION: Do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING MEASURES

Product flash point is greater than 150°C. Trace amounts of toxic fumes may be emitted if incinerated. Use of breathing apparatus is recommended. Use CO2 or foam to extinguish fire. For larger fires use water.

6. ACCIDENTAL RELEASE MEASURES

Wear skin and eye protection during cleanup. Use absorbent to soak up liquid. Place in closed container and dispose of as non-hazardous waste.

7. HANDLING AND STORAGE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear skin, eye, and respiratory protection during cleanup. Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area.

WASTE DISPOSAL METHOD: Empty containers can be disposed of in a normal manner. If A and B residue exists they are to be combined and mixed to create an inert polymerized mass which can then be disposed of in compliance with all relevant local laws and regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep in cool, dry, ventilated storage area, in closed containers and out of direct sunlight. Keep containers closed when not in use. Do not pressurize containers to empty them.

OTHER PRECAUTIONS: Prevent skin and eye contact and use precautionary measures to avoid contact with skin or eyes. Wash hands after handling and change contaminated or soaked clothing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

Respiratory protection: Unless the product is entirely enclosed, do not handle it until you have studied the respiratory precautions issued by the appropriate authority or accident prevention association. At substantial vapor concentrations respirators must be used. Put on full-mask respirator with filter type ABEK.

Hand protection: Protective gloves are recommended.

Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (≥ 0.35 mm) Natural rubber - NR: thickness ≥ 0.5 mm Breakthrough time not tested; dispose of immediately after contamination.

Eye protection: Wear eye/face protection. **Skin and body protection:** Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: $>200^{\circ}\text{C}$ (392°F) **SPECIFIC GRAVITY:** ($\text{H}_2\text{O}=1$): 1.044 **COATING V.O.C.:** N/A

VAPOR DENSITY: Heavier than air **EVAPORATION RATE:** Slower than ether **SOLUBILITY IN WATER:** Slight

APPEARANCE AND ODOR: Gray liquid, mild aromatic.

10. STABILITY AND REACTIVITY

Chemical stability: No decomposition below initial boiling point.

Possibility of hazardous reactions: No hazardous reactions when used as directed.

Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity, oral: LD50 rat: > 5.000 mg/kg

Acute toxicity, dermal: LD50 > 2.000 mg/kg

Primary skin irritation: Species: rabbit Result: slight irritant

Primary mucosae irritation: Species: rabbit Result: slight irritant

Sensitization: Skin sensitization: Result: In the guinea-pig the product did not show a sensitizing effect.

Genotoxicity in vitro: Test type: Salmonella/microsome test (Ames test) Result: No indication of mutagenic effects.

12. ECOLOGICAL INFORMATION

Do not allow to escape into waterways, wastewater or soil. Isocyanate reacts with water at the interface forming CO_2 and a solid, insoluble product with a high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

Toxicity: Acute Fish toxicity: LC50 > 100 mg/l Species: *Oncorhynchus mykiss* (rainbow trout) Exposure duration: 96 h Method: OECD Test Guideline 203

12. ECOLOGICAL INFORMATION continued

Acute toxicity for daphnia:

EC50 > 100 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

Acute toxicity for algae:

IC50 > 100 mg/l

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 72 h

Method: OECD Test Guideline 201

Persistence and degradability

Biodegradability:

Biodegradation: 0 %, 28 d, i.e. not readily degradable

Method: OECD Test Guideline 301 F

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations. No disposal into waste water.

14. TRANSPORTATION INFORMATION

ADR/RID Not dangerous goods

ADN Not dangerous goods

This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.

IATA Not dangerous goods

IMDG Not dangerous goods

Special precautions for user: Not dangerous cargo. Keep away from foodstuffs, acids and alkalis.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

TA Luft List (Germany):

Type: Organic Substances

Fraction of other substances: 100 %

Water contaminating class (Germany): 1 slightly water endangering (in accordance with Annex 4 to the Directive on Water-Hazardous Substances)

16. OTHER INFORMATION

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.

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