

SAFETY DATA SHEET

DURALL MANUFACTURING
DURA SEAL 400 PART A EPOXY

Date Printed: 8/19/2015

Date Revised:

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1. Product and Company Identification

Product Name : DURA SEAL 400 PART A EPOXY
Product Code : VTE-100
Recommended Use: Coating metal and concrete surfaces.

Company Identification:

DURALL MANUFACTURING
9655 NEWTON AVE S
BLOOMINGTON, MN 55431

Information Phone: 952-888-1488
Emergency Phone: 1-800-535-5053 24HRS

2. Hazards Identification

2.1 Classification of the substance or mixture

GHS-US classification

Flammable Liquids Category 3 H226
Skin Corrosion/Irritation Category 2 H315
Sensitization - Skin Category 1 H317
Eye Damage/Irritation Category 2A H319
Acute Toxicity - Inhalation Category 4 H332
Carcinogenicity Category 2 H351

2.2 Label elements

Symbols

Flame, Exclamation, Health Hazard

Hazard pictograms



Signal word (GHS-US): Warning

Hazard statements (GHS-US)

H226 - Flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H351 - Suspected of causing cancer

Precautionary statements

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

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P210 - Keep away from heat, sparks, and open flames - No smoking
P233 - Keep container tightly closed
P240 - Ground/Bond container and receiving equipment
P241 - Use explosion-proof electrical, ventilating, and lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing fume, mist, vapours, and spray
P264 - Wash hands, forearms and face after handling
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves, eye protection, and protective clothing
P281 - Use personal protective equipment as required
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 - IF exposed or concerned: Get medical advice/attention
P312 - Call a POISON CENTER or doctor if you feel unwell
P321 - Specific treatment (See first aid instructions on this label)
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P370 + P378 - In case of fire: Use foam, CO₂, and dry extinguishing powder for extinction

P403 + P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
* XYLENE	1330-20-7	25% TO 30%
* XYLENE (MIXED ORTHO, META AND PARA ISOMERS)	1330-20-7	20% TO 25%
* METHYL ISOBUTYL KETONE	108-10-1	15% TO 20%
* n BUTYL ALCOHOL	71-36-3	5% TO 10%
* ETHYLBENZENE	100-41-4	5% TO 10%

4. First Aid Measures

4.1 Description of first aid measures

First-aid measures general: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious

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person.

First-aid measures after inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.

First-aid measures after skin contact: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

First-aid measures after ingestion: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Harmful if inhaled.

Symptoms/injuries after skin contact: Causes skin irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: May cause gastrointestinal irritation

Chronic symptoms: Suspected of causing cancer.

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide. Dry powder. Foam. Water spray. Water fog.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapour

Explosion hazard: Heating may cause an explosion

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Advice for firefighters

Firefighting instructions: Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Fight fire with normal precautions from a reasonable distance. Do not dispose of fire-fighting water in the environment. Exercise caution when fighting any chemical fire.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Evacuate area. Ventilate area. Keep upwind. Spill should be

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handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1 For non-emergency personnel

Protective equipment: Wear Protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods material for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up: Eliminate ignition sources. Wear suitable protective clothing. Ventilate area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapor/mist. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry, cool and well-ventilated place. Keep container tightly closed. Ground and bond all transfer and storage equipment. Keep away from ignition sources

Storage temperature: Do not store above 49°C (120°F)

8. Exposure Controls/Personal Protection

8.1 Control parameters

* XYLENE OSHA PEL=100PPM ACGIH=100PPM;STEL=150PPM	1330-20-7	25% TO 30%
* XYLENE (MIXED ORTHO,META AND PARA ISOMERS) OSHA PEL/TWA: 100 PPM OSHA PEL/STEL: 150 PPM ACGIH TLV/TWA: 100 PPM ACGIH TLV/STEL: 150 PPM LD50 ORAL: 4.3 G/KG (RAT) LD50 DERMAL: 3.95 ML/KG (RABBIT) LC50 INHALATION: 5000 PPM/4H (RAT) SARA HEALTH ASSESSMENT RANK 72	1330-20-7	20% TO 25%
* METHYL ISOBUTYL KETONE OSHA PEL: 50 PPM, ACGIH TLV: 50 PPM, MFG'S.: N/A	108-10-1	15% TO 20%
* n BUTYL ALCOHOL	71-36-3	5% TO 10%

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OSHA PEL: 50PPM SKIN, ACGIH TLV: 50PPM SKIN, MFG'S.: N/A

* ETHYLBENZENE 100-41-4 5% TO 10%
OSHA PEL/TWA: 100PPM OSHA PEL/STEL: 125PPM
ACGIH TLV/TWA: 100PPM ACGIH TLV/STEL: 125PPM
LD50 ORAL: 3500 MG/KG (RAT) LD50 DERMAL: 17800 MG/KG (RABBIT)
LC50 INHALATION: LCLO: 400PPM/4H (RAT)
SARA HEALTH ASSESSMENT RANK 69

8.2 Exposure controls

Appropriate Engineering Controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Gloves. Protective goggles. Protective clothing.

Hand protection

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye Protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection: Use NIOSH-approved dust/particulate respirator. Where mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

9. Physical and Chemical Properties

pH

Boiling Point: 0 deg F - 276 deg F

Melting Point:

N/A

Freezing Point: N/A

Flash Point: 60 deg F

Method: TCC

Explosive Limits:

Lower Explosive limit: 0

Upper Explosive limit: 11.2

Vapor Pressure:

6.7

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5.9

7.1

Vapor Density:

N/A

Solubility

Solubility in Water:

N/A

Evaporation Rate:

Flammability (solid, gas):

N/A

Exposure:

Upper Exposure Limit: N/A

Lower Exposure Limit: N/A

Specific Gravity: .988

Q/C spec 'VTE-100

pH' not found.

Odor:

Aliphatic-Aromatic odor.

Odor Threshold:

N/A

Appearance::

CLEAR LIQUID, ALIPHATIC-AROMATIC ODOR

Viscosity:

N/A

Partition Coefficient:

N/A

Autoignition Temperature:

Decomposition Temperature:

10. Stability and Reactivity

10.1 Reactivity

N/A

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

N/A

10.4 Conditions to avoid

Eliminate all sources of ignition. Avoid Heat, flames, and sparks.

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

Carbon oxides (CO, CO2). Smoke.

11. Toxicological Information

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Acute toxicity: Harmful if inhaled.
Skin Corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: May cause an allergic reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: N/A
Specific target organ toxicity (single exposure)N/A
Specific target organ toxicity (repeated exposure)N/A
Aspiration hazard: N/A

12. Ecological Information

No data available

13. Disposal Considerations

Waste Treatment Methods:

Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations:

Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

14. Transport Information

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

UN Number: UN1263

UN Shipping Name: Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base

Transport Hazard Class: 3

Packing Group: I

Environmental Hazards:

N/A

Marine Pollutant:

N/A

Special Precautions for User:

N/A

15. Regulatory Information

U.S. Federal Regulations:

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

OSHA:

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N/A

CERCLA: SARA Hazard Category:

N/A

Section 313:

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

International Regulations:

Canadian WHMIS:

N/A

Canadian Environmental Protection Act (CEPA):

N/A

EINECS:

N/A

State Regulations:

California Proposition 65

This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

108-10-1

100-41-4

108-88-3

13463-67-7

U.S. - Massachusetts - Right To Know List

108-10-1

1330-20-7

100-41-4

7631-86-9

1314-13-2

71-36-3

1306-19-0

U.S. - Pennsylvania - Right To Know List

108-10-1

1330-20-7

100-41-4

7631-86-9

1314-13-2

71-36-3

U.S. - New Jersey - Right To Know List

108-10-1

1330-20-7

100-41-4

7631-86-9

1314-13-2

71-36-3

1306-19-0

Volatile Organic Compounds:

N/A

16. Other Information

Revision date:

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Prepared By: Author: Frank Eriksen

Information Contact:

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N/A

Manufacturer Disclaimer:

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