

Dynamo Polyurethane Systems - Dynamo 500 Series Resin Component B - Part B



IDENTIFICATION SECTION 1 : Identification 1.1. Product form Mixtures • Chemical Name Polyurethane Resin B - Side Product Type Liquid • Identified Use Component B of Spray - Applied System : Cas No. Mixture Product name Dynamo 500, Dynamo D5, Dynamo 50, Dynamo 450, CG 50, and CG 500 Recommended use and restrictions on use 1.2. Use of the substance/mixture : A component for the production of high pressure spray foam insulation 1.3. Supplier Dynamo Polyurethane Systems Inc. 2113 Harwood Rd. Ste 309 #900 Bedford, TX 76021 Tel: 469-799-9991 info@Dynamosps.com 1.4. Emergency telephone number Emergency number CHEMTREC (24 hours) 800-424-9300 : International (24 hours) +1-703-527-3887 SECTION 2 HAZARD(s) IDENTIFICATION Classification of the substance or mixture 2.1.

| GHS-US classification | | |
|---|------|---|
| Acute toxicity (oral), Category 4 | H302 | Harmful if swallowed |
| Skin corrosion/irritation, Category 1B | H314 | Causes severe skin burns and eye damage |
| Serious eye damage/eye irritation, Category 1 | H318 | Causes serious eye damage |

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Full text of H statements: see section 16



| GHS-US labelling Hazard pictograms (GHS-US) : | | GHS05 |
|--|---|--|
| Signal word (GHS-US) Hazard statements (GHS-US) | : | Danger H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318 Causes serious eye damage. |
| Precautionary statements (GHS-US) | : | P260 - Do not breathe fume, mist, spray, vapors P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear respiratory protection, protective clothing, protective gloves, eye protection P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep 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 P310 - Immediately call a doctor, a POISON CENTER P330 - Rinse mouth P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with applicable local, national and international regulation. |

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No additional information available

| 2.4. | Unknown |
|------|------------|
| | Not applic |

Unknown acute toxicity (GHS US) Not applicable

Not applicable

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

| Ingredient Nan | ne | Cas # | Concentration | Exposure | LimitsLD50/LC50 | | |
|---|----------------|---|--|------------------------|---|--|--|
| Dimethylamino- ethoxeyethanol | | 108-01-0 | 1%-5% | Not available | 2337mg/kg (rat-oral)/ 1000mg/l 4hr (rat inhalation) | | |
| 1,3-Propane diam (3-(dimethylamin propyl)- N,N-dime | 0- | 6711-48-4 | 1%- 5% | Not available | > 1.25g/kg (rat-oral)/ Not determined | | |
| Section 4 | : | FIRST AID M | EASURES | | | | |
| Eye contact | : | Rinse immediately with plenty of water for 15 minutes. Contact lenses should be re moved. Immediately get medical attention. | | | | | |
| Inhalation | : | case of brea | thing difficulties ad | minister oxygen. In ca | on comfortable for breathing. In se of irregular breathing or respi l advice/attention if you feel un | | |
| Skin contact | Skin contact : | | ntaminated clothing medical attention i | | kin thoroughly with mild soap and | | |
| Ingestion | : | thing by mo | outh to an unconscient | ous person. If unconso | nduce vomiting. Never give any cious, place in the recovery posi- ention if you feel unwell. | | |
| 4.2. Most in | nportai | nt symptoms | and effects (acute a | and delayed) | | | |
| After inhalation After skin conta After eye conta | n act | : May be har : Causes sev | | | quid may cause a mild irritation. | | |

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| After ingestion : | Harmful if swallowed. May cause stomach pain or discomfort and gastrointestinal disturbance. |
|--|---|
| 4.3. Indication o | f immediate medical attention and special treatment needed, if necessary |
| Notes to Physician Protection of first ai | training. Use personal protective equipment. Avoid contact with skin, eyes and clothing. |
| SECTION 5 : | FIRE FIGHTING MEASURES |
| 5.1. Suita | able (and unsuitable) extinguishing media |
| Suitable extinguishi Unsuitable extingui | ing media : Water. Dry extinguishing powder. Carbon dioxide. Alchol resistant foam. |
| 5.2. Spec | cific hazards arising from the chemical |
| Fire hazard | : Minimal fire hazard. Combustion may produce irritating fumes and carbon oxides. |
| Explosion hazard | : None known. |
| Specific hazards arising from the chemical | : Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke. Burning produces irritant fumes. |
| Reactivity | : Stable under normal conditions of use. |
| | |

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus with a full face piece operated in positive pressure mode. Move undamaged containers from immediate hazard area if it can be done safely.

Other information : Prevent entry to sewers and public waters.



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| SECT | ION 6 : Accidental rel | ease me | easures |
|--------|--|---------------------|---|
| C 1 | Deres no processione proto | tivo | increase and amorgan over a codures |
| 6.1. | Personal precautions, protec | ctive equ | uipment and emergency procedures |
| 6.1.1. | Spill Procedure : | with th spill at | up personnel must wear protective equipment to prevent contact ne product. Evacuate the area of all unnecessary personnel. Stop t source. Use inert absorbent material such as sand, clay, earth or bsorbent to clean up spill. Shovel into drums. |
| 6.1.2. | Personal Precautions, : protective equipment and emergency procedures | protec | e adequate ventilation. Wear personal ction equipment. Remove persons to safety. Do not breathe vapors ay mist. |
| 6.2 | Methods and material for : containment and cleaning up | sand o | ble material for taking up: Absorb spill with inert material (e.g. dry or earth), then place in a chemical waste container. with plenty of water. |
| 6.3 | Environmental precautions: | Prever | nt entry to sewers and public waters. |
| SECT | ION 7 : Handling and | storage | |
| 7.1. P | recautions for safe handling | : | Avoid mixing with air or use for any purpose above atmospheric pressure. If possible use nitrogen (under pressure) to carry out transfers. No special fire protection measures are necessary. |
| 7.2. | Hygiene measures | : | Wash contaminated clothing prior to re-use. Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. |
| 7.3. C | onditions for safe storage | : | Store product in accordance with local regulation. Store product at room temperature away from heat and moisture. Store product in original container in a dry, cool, and well ventilated |
| | | | area with local exhaust. Protect from freezing. |

7.5. Storage temperature : 50 -90°F (10 - 32°C)

SECTION 8 : Exposure controls/personal protection

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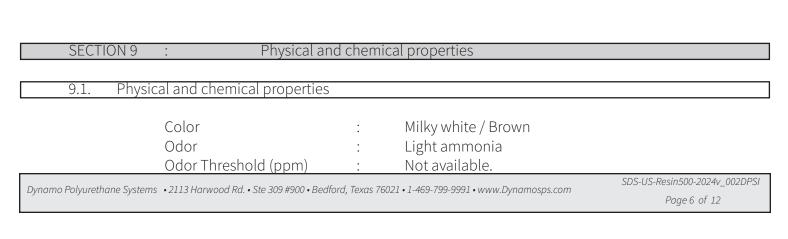
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| 8.1. | Appropriate engineering controls | : | Use ventilation adequate to keep exposures (airborne levels of controls dust, fume, vapor, etc) below recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not breathe dust/fume/gas/mist/vapors. |
|------|--|---|--|
| 8.3. | Individual protection Measures Eye Protection | : | When directly handling liquid product, eye protection is required, such as chemical safety goggles or chemical safety goggles in combination with a full-face shield when there is a greater risk of splash. |
| 8.4. | Hand protection | : | Impervious gloves e.g. PVC, nitrile rubber, butyl rubber |
| 8.5 | Skin and body protection | : | Long sleeved protective clothing. Chemical resistant apron |
| 8.6. | Respiratory protection | : | Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols through proper engineering controls such as exhaust ventilation and proper protective equipment such as a full face air supplied respirators. NIOSH/ MSHA approved air purifying respirator should be used if operating conditions produce airborne concentrations that exceed exposure limits for any individual components. |
| 8.7. | Hygiene Measures | : | Wash hands, forearms and face thoroughly after handling chemical products. |
| 8.8. | Personal Protective Equipment(PPE) | : | Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. |



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| pH (Value) | • | ~11.0 |
|-------------------------------|------|---|
| | | |
| Melting Point (°C) / | | |
| Freezing Point (°C) | : | 0 °C/32 °F |
| Initial boiling point | : | 212 °C/413 °F |
| Flash Point (°C) | : | Not applicable |
| Evaporation Rate | : | Not available |
| Flammability (solid, gas) | : | Not applicable |
| Explosive Limit Ranges | : | Not available |
| Vapour pressure (Pascal) | : | Not available |
| Vapour Density (Air=1) | : | Not available |
| Density (g/ml) | : | Not available |
| Specific Gravity @ 77°F (25°C | C) : | Summer formula – 1.15 g/cm ³ / .415 lb/in ³ |
| Volatility | : | Not available |
| Viscosity | : | 500-100cps @ 20 °C/68 °F |
| Oxidizing properties | : | No data available |
| - | | |

9.2. Other information

No additional information available

| SECTI | ON 10 : | Stabilit | ty and re | eactivity |
|-------|---|----------|-----------|--|
| 10.1. | Reactivity | : | Stable | under normal conditions of use. |
| 10.2. | Chemical stability | : | Stable | under normal conditions of use. |
| 10.3. | Possibility of Hazardous Reactions | : | Not av | ailable |
| 10.4. | Incomparability (Materials to avoid) | : | Reacts | with strong oxidizing agents. Strong acids. Strong bases. |
| 10.5. | Conditions to Avoid | : | out ad | emperatures, open flames and sparks. Do not use in areas with equate ventilation. Temperatures > 85 °F(29 °C). Protect from re. Direct sunlight. Excessive heat. Freezing. |
| 10.6. | Hazardous Polymeriza | ation | : | Polymerization will occur in contact with isocyanates. |
| 10.7. | Hazardous decompos | sition | : | Combustion may produce irritating fumes and carbon oxides. Oxides of nitrogen and carbon. Other potentially toxic fumes. |



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SECTION 11 : Toxicological information

11.1. Information on toxicological effects

11.1.1 Exposure routes: Inhalation, Skin Contact, Eye Contact

:

11.1.2 Acute Toxcity

| | Ingredient Name | | _C50 | LD50 | LD50 |
|-------|---|------------------------|--------------------------------------|-----------------------------|------------------|
| | ,3 Propanediamine, N'(3- dimethylamino)propyl) N,Ndimethyl- | | Not available | 1620ug/kg oral, rat | Not available |
| | Dimethylaminoethanol 2- | | 5.1mg/L 4 hours, inhalation, rat) | 1803mg/kg Oral, rat | Not available |
| 11.2. | Irritation : | Skin Irrita damage. | | in burns. Eye Irritant: Cau | uses serious eye |
| 11.3. | Sensitization : | Skin Sen | sitization: Not expected | d to be a skin or respirato | ory sensitizer. |
| 11.4. | Repeated dose toxicity : | No inforr | nation available | | |
| 11.5 | Carcinogenicity : | No ingre | dients are listed as care | cinogens by ACGIH and IF | RAC. |
| 11.6 | Mutagenicity : | No inforr | nation available | | |
| SECTI | ON 12 : Ecological in | formation | | | |
| 12.1. | Ecotoxicity | : | Not available. | | |
| 12.2. | Persistence and Degradabili | ty: I | Not expected to be ra | pidly biodegradable. | |
| 12.3 | Mobility in Soil | 1 : | Not available | | |
| 12.4 | Bioaccumulative Potential | 1 : | Not available. | | |
| | Other adverse effect | s : 1 | Not available | | |

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SECTION 13 : Disposal considerations

13.1. Disposal methods

| Waste treatment methods | : | Dispose of this material and its container to hazardous or special waste collection point. |
|----------------------------|---|--|
| | | |
| Product/Packaging disposal | : | Comply with Federal, provincial, and local regulations on report- |
| recommendations | | ing releases. Consult your local or regional authorities. |
| Ecology - waste materials | : | Avoid release to the environment. |
| | | |

SECTION 14 : Transport information

Department of Transportation (DOT) : In accordance with DOT Not regulated

Transportation of Dangerous Goods Not regulated

Air transport Not regulated

Transport by sea Not regulated

SECTION 15 : Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical (s) in excess of the applicable inconsquential concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

15.2. SARA 302 Extremly Hazardous Substances : NONE

15.3. Chemicals subject to SARA Reporting : NONE

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This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

SECTION 16: Other information

| 16.1. | Other information | : | The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended |
|------------------------|---|-------|---|
| 16.2. | H-statement(s) | : | H302 Harmful if swallowed H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled |
| 16.3. | Safety Data Sheet issued by Product Safety Department | : | This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Dynamo Polyurethane Systems Inc. Dynamo Polyurethane Systems Inc. assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws. |
| Date of Issue : | | : | January 2023 |
| Additional Information | | : NON | E |