

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)	:	<ul> <li>P260 - Do not breathe fume, mist, spray, vapors</li> <li>P264 - Wash hands thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P280 - Wear respiratory protection, protective clothing, protective gloves, eye protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a doctor, a POISON CENTER</li> <li>P330 - Rinse mouth</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to comply with applicable local, national and international regulation.</li> </ul>

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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
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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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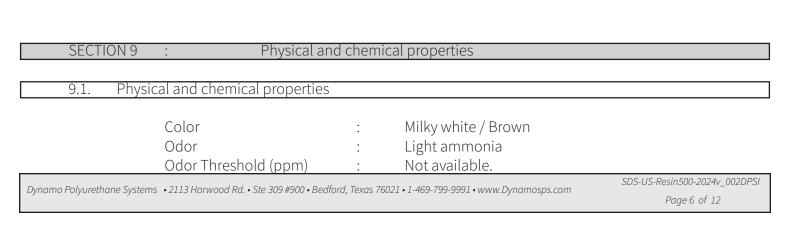
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8.1.	Appropriate engineering controls	:	Use ventilation adequate to keep exposures (airborne levels of controls dust, fume, vapor, etc) below recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Avoid 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.



Resin

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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 <sup>3</sup> / .415 lb/in <sup>3</sup>
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)	:	<ul> <li>H302 Harmful if swallowed</li> <li>H312 Harmful in contact with skin</li> <li>H314 Causes severe skin burns and eye damage</li> <li>H315 Causes skin irritation</li> <li>H318 Causes serious eye damage</li> <li>H319 Causes serious eye irritation</li> <li>H331 Toxic if inhaled</li> <li>H332 Harmful if inhaled</li> </ul>
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