

Section 1. Identification

Chemical Name or Synonym : DSB GEL LOC LP PRT B
Product Name : DSB GEL LOC LP PRT B
Recommended use : Curative
Restrictions on use : Not known
Supplier : The D.S. Brown Company
 300 East Cherry Street
 North Baltimore, Ohio 45872
 419-257-3561
In Case of Emergency : Chemtrec 1-800-262-8200 International 01-703-741-5500

Section 2. Hazards Identification

Health Hazards : Acute toxicity (Oral) - Category 4
 Skin Corrosion/Irritation - Category 1A
 Serious Eye Damage/Eye Irritation - Category 1
 Skin Sensitizer - Category 1
 Toxic to Reproduction - Category 1B
Unknown Toxicity – Health : Acute toxicity, oral 26.73%
 Acute toxicity, dermal 65.82%
 Acute toxicity, inhalation, vapor 99.98%
 Acute toxicity, inhalation, dust or mist 99.98%
Environmental Hazards : Acute hazards to the aquatic environment - Category 1
 Chronic hazards to the aquatic environment - Category 1
Unknown Toxicity – Environmental : Acute hazards to the aquatic environment 47.67%
 Chronic hazards to the aquatic environment 47.48%

LABEL ELEMENTS

Hazard Symbols : 

Signal Word : **Danger**

Hazard Statements : Harmful if swallowed.
 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 May damage fertility or the unborn child.
 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.



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Section 2. Hazards Identification *cont'd.*

Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Collect spillage.
Storage	: Store locked up.
Disposal	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC)	: None

Section 3. Composition/Information on Ingredients

CAS	Chemical Name	Content in percent (%)*
84852-15-3	4-Nonylphenol	25 - <50%
9046-10-0	Poly(oxypropylene) diamine	10 - <20%
111-40-0	Diethylenetriamine	10 - <20%
80-05-7	Bisphenol A	5 - <10%
90-72-2	Tris(dimethylaminomethyl)phenol	1 - <5%
9002-88-4	Polyethylene	1 - <5%
112-57-2	Tetraethylene pentamine	0.1 - <1%

*All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Section 4. First Aid Measures

Inhalation	: Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.
Skin Contact	: Call a physician or poison control center immediately. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
Eye Contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
Ingestion	: Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.
Personal Protection for First-aid Responders	: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.



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Section 4. First Aid Measures *cont'd.*

Most important Symptoms/ Effects, Acute and Delayed

Symptoms : Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing.

Hazards : No data available.

Indication of Immediate Medical Attention and Special Treatment Needed

Treatment : Symptoms may be delayed.

Section 5. Fire-Fighting Measures

General Fire Hazards : No unusual fire or explosion hazards noted.

Suitable Extinguishing Media : Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media : Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising From the Chemical : During fire, gases hazardous to health may be formed.

Special Fire Fighting Procedures : No data available

Special Protective Equipment for Fire-Fighters : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures : See Section 8 of SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Accidental Release Measures : In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Methods and Material for Containment and Cleaning Up : Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Methods and Material for : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

Section 7. Handling and Storage

- Technical Measures (e.g. Local and general ventilation)** : Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.
- Safe Handling Advice** : Do not taste or swallow. Wash hands thoroughly after handling. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes, on skin, on clothing. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
- Contact Avoidance Measures** : No data available.
- Hygiene Measures** : Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Wash hands after handling. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.
- Safe Storage Conditions** : Store locked up.
- Safe Packaging Materials** : No data available.

Section 8. Exposure Controls/Personal Protection

CONTROL PARAMETERS

Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Diethylenetriamine	TWA	1 ppm	US. ACGIH Threshold Limit Values, as amended (2011)
Polyethylene - Inhalable particles	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
Polyethylene - Respirable particles	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
Polyethylene - Respirable particles	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Polyethylene - Total dust	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)
	TWA	50 millions of particles per cube foot of air	US OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)
Polyethylene - Respirable fraction	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)
	TWA	15 millions of particles per cube foot of air	US OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)



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Section 8. Exposure Controls/Personal Protection

CONTROL PARAMETERS

Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Diethylenetriamine	TWA	1 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Diethylenetriamine	TWA	1 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Diethylenetriamine	TWA	1 ppm 4.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Polyethylene - Respirable fraction	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Polyethylene - Total dust	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Polyethylene - Inhalable fraction	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Polyethylene - Respirable fraction	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Polyethylene - Total dust	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black - Inhalation fraction	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)

Appropriate Engineering Controls

: Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.



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Section 8. Exposure Controls/Personal Protection *cont'd.*

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTION EQUIPMENT

General Information	: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face Protection	: Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.
Skin Protection	
Hand Protection	: Use suitable protective gloves if risk of skin contact.
Other	: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information
Respiratory Protection	: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene Measures	: Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Wash hands after handling. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

Section 9. Physical and Chemical Properties

Appearance	
Physical State	: liquid
Form	: liquid
Color	: Amber
Odor	: Mild pungent
Odor threshold	: No data available.
pH	: No data available.
Melting point/freezing point	: No data available.
Initial boiling point and boiling range	: No data available.
Flash Point	: >93°C >200°F (Setaflash Closed Cup)
Evaporation rate	: Slower than Ether
Flammability (solid, gas)	: No

Section 9. Physical and Chemical Properties *cont'd.***Upper/lower limit on flammability or explosive limits**

Flammability limit - upper (%)	: No data available.
Flammability limit - lower (%)	: No data available.
Explosive limit - upper	: No data available.
Explosive limit - lower	: No data available.
Vapor pressure	: No data available.
Vapor density	: Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density	: 1.20
Solubility(ies)	
Solubility in water	: Practically Insoluble
Solubility (other)	: No data available.
Partition coefficient (n-octanol/water)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.

Section 10. Stability and Reactivity

Reactivity	: No data available.
Chemical Stability	: Material is stable under normal conditions.
Possibility of Hazardous Reactions	: No data available.
Conditions to Avoid	: Avoid heat or contamination.
Incompatible Materials	: Avoid contact with acids.
Hazardous Decomposition Products	: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Section 11. Toxicological Information

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Inhalation	: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact	: May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye Contact	: Causes serious eye irritation.
Ingestion	: Harmful if swallowed.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Inhalation	: No data available.
Skin Contact	: No data available.
Eye Contact	: No data available.
Ingestion	: No data available.

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

Oral Product	: ATEmix: 1,362.85 mg/kg
Dermal Product	: ATEmix: 2,075.16 mg/kg
Inhalation Product	: Not classified for acute toxicity based on available data.
Specified Substance(s)	: Polyethylene LC 50 (Rabbit): 20.1 mg/l

Repeated Dose Toxicity Product

: No data available.

Skin Corrosion/Irritation Product

: No data available.

Specified Substance(s)	: 4-Nonylphenol in vivo (Rabbit): Category 1B
	: Poly(oxypropylene)diamine (Rabbit): Corrosive
	: Tris(dimethylaminomethyl)phenol in vivo (Rabbit): Corrosive

Serious Eye Damage/Eye Irritation Product

: No data available.

Specified Substance(s)	: 4-Nonylphenol Rabbit, 24 - 72 hrs: Corrosive
	: Poly(oxypropylene)diamine Rabbit, 24 hrs: Corrosive
	: Tris(dimethylaminomethyl)phenol Rabbit, 3 d: Corrosive

Respiratory or Skin Sensitization Product

: No data available.

Carcinogenicity Product

: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans : No carcinogenic components identified



Section 12. Ecological Information *cont'd.*

Chronic Hazards to the Aquatic Environment

Fish Product : No data available

Aquatic Invertebrates Product : No data available.

Specified Substance(s) : 4-Nonylphenol

NOAEL (Oncorhynchus mykiss, 91 d): 0.006 mg/l
Experimental result, Key study

Aquatic Invertebrates Product : No data available.

Toxicity to Aquatic Plants Product : No data available.

Persistence and Degradability

Biodegradation Product : No data available.

BOD/COD Ratio Product : No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF) Product : No data available.

Specified Substance(s) : 4-Nonylphenol

Fathead minnow (Pimephales promelas),
Bioconcentration Factor (BCF): 988 (Flow through)

Partition Coefficient n-octanol/water (log Kow)

Product : No data available.

Specified Substance(s) : Bisphenol A

Log Kow: 3.32

Tetraethylene pentamine

Log Kow: 1.503

Mobility in Soil : No data available

Other Adverse Effects : Very toxic to aquatic life with long lasting effects.

Section 13. Disposal Considerations

Disposal Methods : Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging : No data available.



Section 14. Transport Information

TDG	: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol), 9, PG III
CFR/DOT	: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol), 9, PG III
IMDG	: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol), 9, PG III, MARINE POLLUTANT
Further Information	: The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

Section 15. Regulatory Information

UNITED STATES (FEDERAL AND STATE)

TSCA Section 12(b) Export Notification (40 CFR 707, SubptD)	: 4-Nonylphenol Nonyl Phenol	De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification only. De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification only.
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US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subt E) : None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910, 1001-1050), as amended : None present or none present in regulated quantities.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard Categories	: Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route or exposure) Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization Reproductive toxicity
SARA 302 Extremely Hazardous Substance	: None present or none present in regulated quantities.
SARA 304 Emergency Release Notification	: None present or none present in regulated quantities.
SARA 313 (TRI Reporting)	: Chemical Identity: 4-Nonylphenol Bisphenol A Dinonylphenol Nonyl Phenol



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Section 15. Regulatory Information *cont'd.*

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) : None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) : None present or none present in regulated quantities.

US. California Proposition 65 :  WARNING - Cancer and Reproductive Harm - www.P65Warning.ca.gov

US. New Jersey Worker and Community Right-to-Know Act : Chemical Identity:
Diethylenetriamine
Bisphenol A

US. Massachusetts RTK - Substance List : Chemical Identity:
4-Nonylphenol
Diethylenetriamine
Bisphenol A

US. Pennsylvania RTK - Hazardous Substances : Chemical Identity:
4-Nonylphenol
Diethylenetriamine
Bisphenol A

US. Rhode Island RTK : Chemical Identity:
Diethylenetriamine
Polyethylene

INTERNATIONAL REGULATIONS

Montreal Protocol : Not applicable

Stockholm Convention : Not applicable

Rotterdam Convention : Not applicable

Kyoto Protocol : Not applicable

VOC : When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:78 g/l

Regulatory VOC (less water and exempt solvent) : 156 g/l

VOC Method 310 : 13.01%

INVENTORY STATUS

Australia AICS : One or more components in this product not listed on or exempt from the inventory.

Canada DSL Inventory List : One or more components in this product not listed on or exempt from the inventory.

Canada NDSL Inventory : One or more components in this product not listed on or exempt from the inventory.



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Section 15. Regulatory Information *cont'd.*

Ontario Inventory	: One or more components in this product not listed on or exempt from the inventory.
China Inv. Existing Chemical Substances	: One or more components in this product not listed on or exempt from the inventory.
Japan (ENCS) List	: One or more components in this product are not listed on or exempt from the inventory.
Japan ISHL Listing	: One or more components in this product are not listed on or exempt from the Inventory
Japan Pharmacopoeia Listing	: One or more components in this product are not listed on or exempt from the Inventory
Korea Existing Chemicals Inv. (KECI)	: One or more components in this product are not listed on or exempt from the Inventory
Mexico INSQ	: One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS	: One or more components in this product are not listed on or exempt from the Inventory.
Taiwan Chemical Substance Inventory	: One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory	: All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP	: One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances	: One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemical	: One or more components in this product are not listed on or exempt from the Inventory.

Section 16. Other Information

Further Information No data available.

D.S. BROWN COMPANY DISCLAIMER

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



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