



Safety Data Sheet

Big D Dyna-Block ; Big D Dyna-Screen

SECTION 1. IDENTIFICATION

Product Identifier	Big D Dyna-Block ; Big D Dyna-Screen
Other Means of Identification	607, 609, & 619
Other Identification	Dyna-Block ; Dyna-Screen
Product Family	Camphor
Recommended Use	Dry Deodorants.
Manufacturer	Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com
Supplier	Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com
Emergency Phone No.	Big D Industries, 800 535 5053, 24hr (Infotrac)
SDS No.	0435
Date of Preparation	August 10, 2015

SECTION 2. HAZARDS IDENTIFICATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Camphor	76-22-2	90-100	
ISOBORNEOL	124-76-5	5-10	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Call a Poison Centre or doctor if you feel unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Call a Poison Centre or doctor if you feel unwell or are concerned.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Rinse mouth with water. Immediately call a Poison Centre or doctor.

First-aid Comments

If exposed or concerned, get medical advice/attention.

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Most Important Symptoms and Effects, Acute and Delayed

If inhaled:

Can irritate the nose and throat.

If on skin:

May cause mild irritation.

If in eyes:

May cause moderate to severe irritation.

If swallowed:

Can irritate the mouth, throat and stomach.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Large fire: Use flooding quantities of water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Chemical

Flammable solid.

May travel a considerable distance to a source of ignition and flash back to a leak or open container.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution.

Fire-fighters should enter area wearing specialized protective equipment. (Bunker Gear will not provide adequate protection.).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources. Use grounded, explosion-proof equipment.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Store recovered product in suitable containers that are: tightly-covered.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid repeated or prolonged skin contact with product or with contaminated equipment/surfaces. Only use where there is adequate ventilation. Avoid generating dusts. Avoid generating vapours or mists. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs.

Conditions for Safe Storage

Store in an area that is: dry, well-ventilated, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Camphor	12 mg/m3	19 mg/m3	2 mg/m3			

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Prevent skin contact.

Respiratory Protection

Do not breathe in this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Colourless white crystalline crystals.
Odour	Aromatic
Odour Threshold	Causes olfactory fatigue.
pH	Not applicable
Melting Point/Freezing Point	356 - 417 °F (180 - 214 °C) (estimated) (melting); 356 - 417 °F (180 - 214 °C) (estimated) (freezing)
Initial Boiling Point/Range	Not available
Flash Point	150.1 °F (65.6 °C) (closed cup) (Camphor)
Evaporation Rate	Not available
Upper/Lower Flammability or Explosive Limit	3.5% (Camphor) (upper); 0.6% (Camphor) (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	5.24
Relative Density (water = 1)	Not available
Solubility	Slightly soluble in water; Highly soluble in ketones (e.g. acetone).
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	~ 873 °F (467 °C) (Camphor)
Other Information	
Physical State	Solid
Molecular Formula	Not applicable
Molecular Weight	Not applicable
Critical Temperature	Not available
Saturated Vapour Concentration	1267 - 1681 ppm

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

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Conditions to Avoid

None known.

Incompatible Materials

Oxidizing agents (e.g. peroxides), strong oxidizing agents (e.g. perchloric acid), acid anhydrides (e.g. acetic anhydride), organic acids (e.g. acetic acid).

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Camphor		1310 mg/kg (mouse)	
ISOBORNEOL		5200 mg/kg (rat)	5000 mg/kg (rabbit)

Skin Corrosion/Irritation

Animal tests show moderate or severe irritation following prolonged exposure (24 hours).

Serious Eye Damage/Irritation

There is limited evidence of mild irritation. (Camphor)

STOT (Specific Target Organ Toxicity) - Single Exposure**Inhalation**

May be harmful based on limited evidence.
Causes nose and throat irritation. May cause lung injury.

Skin Absorption

May be harmful.

Ingestion

May be harmful based on limited evidence.
Irritation of the mouth, throat and stomach, harmful effects on the kidneys, harmful effects on the liver.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

A4 – Not classifiable as a human carcinogen.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A4 = Not classifiable as a human carcinogen.

Reproductive Toxicity**Development of Offspring**

May cause effects on the unborn child based on information for closely related chemicals.

Sexual Function and Fertility

No information was located.

Germ Cell Mutagenicity

Not mutagenic. Animal studies show evidence of mutagenicity in reproductive cells (sperm or eggs).

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

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Environmental information was not located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1325	Flammable solids, organic, n.o.s. (Flammable Solid Fragrance)	4.1	III
US DOT	1325	Flammable solids, organic, n.o.s. (Flammable Solid Fragrance)	4.1	III

Special Precautions for User Please note: US DOT Exceptions: LTD QTY (See CFR)(Ground) See 40 CFR for Quantity Limitations by other modes.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS Classification



Class B3



Class D2B

B3 - Combustible Liquid; D2B - Toxic

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

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA

US OSHA HazCom 1994 Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200 (1994)).

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Additional USA Regulatory Lists

SARA Title III - Section 311/312: Fire Hazard acute health hazard

Rhode Island RTK hazardous substances. (Camphor)

Pennsylvania Right To Know. (Camphor). (ISOBORNEOL)

Minnesota. (Camphor)

Florida. (Camphor)

Massachusetts Right To Know. (Camphor)

New Jersey Right To Know. (Camphor). (ISOBORNEOL)

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California Director's List of Hazardous Substances (8 CCR 339). (Camphor)
Tennessee. (Camphor)

Custom Regulatory 1

This Product may not be sold for use in the following US states: California Michigan Maryland Delaware Pennsylvania
New Jersey Connecticut Rhode Island Massachusetts Maine District of Columbia New York

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 0	Flammability - 3	Instability - 0
SDS Prepared By	Mitch Anderson		
Phone No.	405 682 2541		

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