



Material Safety Data Sheet

Big D Granular Deodorant

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Big D Granular Deodorant
Product Identifier 147, 150, & 151
MSDS No. 0085
Other Means of Identification Granular Deodorant
Product Family 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 Contact Information Big D Industries, 800 535 5053, 24hr (Infotrac)
Use Dry Deodorants

2. HAZARDS IDENTIFICATION

Potential Health Effects

Route of Exposure Inhalation; skin contact; eye contact; ingestion.
Inhalation Can cause severe irritation of the nose and throat.
Skin Contact SKIN IRRITANT.
Eye Contact May cause mild irritation.
Ingestion If large amounts are ingested: symptoms may include nausea, vomiting, stomach cramps and diarrhea.
Effects of Long-Term (Chronic) Exposure Can cause permanent damage to the respiratory system.
Carcinogenicity CARCINOGEN. (Silica, cristobalite). (Silica, quartz)
Teratogenicity / Embryotoxicity No information was located.
Reproductive Toxicity No information was located.
Mutagenicity No information was located.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Registry No.	Concentration %	Other Identifiers
Silica, quartz	14808-60-7	50-90	
Montmorillonite ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O), calcined	70892-59-0	1-10	
Silica, cristobalite	14464-46-1	1-10	
Fragrance	No CAS	1.00-5.00	Citronella

MSDS Name: Big D Granular Deodorant - Ver. 1
MSDS No.: 0085
Date of Preparation: May 29, 2012

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Move victim to fresh air. Call a Poison Centre or doctor if the victim feels unwell.
Skin Contact	Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. Call a Poison Centre or doctor if the victim feels unwell.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Immediately call a Poison Centre or doctor.

5. FIRE FIGHTING MEASURES

Flammable Properties	Does not burn.
Suitable Extinguishing Media	Not combustible. Use extinguishing agent suitable for surrounding fire.
Unsuitable Extinguishing Media	None known.
Specific Hazards Arising from the Chemical	This product presents no unusual hazards in a fire situation. Not known to generate any hazardous decomposition products in a fire.
Protective Equipment and Precautions for Firefighters	No special precautions are necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	No special precautions are necessary.
Environmental Precautions	Do not allow into any sewer, on the ground or into any waterway.
Methods for Containment and Clean-up	Avoid generating dust.

7. HANDLING AND STORAGE

Handling	No special handling precautions are necessary.
Storage	Separate from incompatible materials (see Section 10: Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Montmorillonite ((Al _{1.33} -1.67Mg _{0.33} -0.67)(Ca ₀ -1Na ₀ -1)O ₃₃ Si ₄ (OH) ₂ O ₁₀ .xH ₂ O), calcined	0.05 mg/m ³		5 mg/m ³			
Silica, cristobalite	0.05 mg/m ³		5 mg/m ³			
Silica, quartz	0.05 mg/m ³		5 mg/m ³			

Engineering Controls Use a local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Personal Protective Equipment (PPE)

MSDS Name: Big D Granular Deodorant - Ver. 1
MSDS No.: 0085
Date of Preparation: May 29, 2012

Eye/Face Protection	Not required but it is good practice to wear safety glasses or chemical safety goggles.
Skin Protection	Not required, if used as directed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Tan - grey.
Odour	Fragrant (Fragrance)
Odour Threshold	Not available
Boiling Point	Not applicable
Freezing Point	Not applicable
Relative Density (water = 1)	Not applicable
Solubility in Water	Insoluble (less than 1 mg/L).
pH	Not available
Partition Coefficient, n-Octanol/Water	Not available
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not available
Evaporation Rate	Not applicable
Flash Point	> 200 °F (estimated) (Montmorillonite ((Al _{1.33} -1.67Mg _{0.33} -0.67)(Ca ₀ -1Na ₀ -1)0.33Si ₄ (OH) ₂ O ₁₀ .xH ₂ O), calcined)
Lower Flammable/Explosive Limit	Not available
Upper Flammable/Explosive Limit	Not available
Auto-ignition Temperature	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	Incompatible materials.
Incompatible Materials	Unsaturated hydrocarbons (e.g. turpentine), strong acids (e.g. hydrochloric acid).
Hazardous Decomposition Products	None known.
Possibility of Hazardous Reactions	None known.

11. TOXICOLOGICAL INFORMATION

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Irritation / Corrosion

No information was located.

Eye Irritation / Corrosion

No information was located.

Effects of Short-Term (Acute) Exposure

MSDS Name: Big D Granular Deodorant - Ver. 1
MSDS No.: 0085
Date of Preparation: May 29, 2012

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Effects of Long-Term (Chronic) Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Montmorillonite ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O), calcined			Known carcinogen	
Silica, cristobalite			Known carcinogen	
Silica, quartz			Known carcinogen	

Teratogenicity / Embryotoxicity

No information was located.

Reproductive Toxicity

No information was located.

Mutagenicity

No information was located.

Toxicologically Synergistic Materials

No information was located.

12. ECOLOGICAL INFORMATION

General Comments Environmental information was not located.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION**Shipping Information**

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

Other Transport Information

Special Shipping Information Not applicable

15. REGULATORY INFORMATION**Canada****WHMIS Classification**

MSDS Name: Big D Granular Deodorant - Ver. 1

MSDS No.: 0085

Date of Preparation: May 29, 2012



Class D2A

D2A - Very Toxic

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS 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/NDSL.

USA

US OSHA Regulatory Status

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

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

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

California Proposition 65. (Silica, cristobalite). (Silica, quartz) SARA Title III - Section 311/312. (Silica, cristobalite). (Silica, quartz)

16. OTHER INFORMATION

NFPA Rating	Health - 1	Flammability - 0	Instability - 0
MSDS Prepared By	Wayne Hegstrom		
Phone No.	405 682 2541		
Date of Preparation	May 29, 2012		
Key to Abbreviations	ACGIH® = American Conference of Governmental Industrial Hygienists NFPA = National Fire Prevention Association NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration		