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.	0119
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	1-10	
Montmorillonite ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O), calcined	70892-59-0	50-90	
Silica, cristobalite	14464-46-1	1-10	
Fragrance	No CAS	1.00-5.00	Citronella

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

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Montmorillonite ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O), calcined	0.05 mg/m3		5 mg/m3			
Silica, cristobalite	0.05 mg/m3		5 mg/m3			
Silica, quartz	0.05 mg/m3		5 mg/m3			

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

Personal Protective Equipment (PPE)

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 ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O), 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

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

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	August 30, 2012
Revision Indicators	The following MSDS content was changed on August 30, 2012: Ingredient Information.
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