

# PRODUCT INFORMATION SHEET



## BIG D™ ALL PURPOSE CLEANER/DEGREASER

### DIRECTIONS

**FOR GENERAL CLEANING** - Dilute 1 part BIG D to 15 parts water.  
**WALLS & PAINTED SURFACES** - Use 1 part Big D to 12 parts water. Rinse with water and wipe dry.  
**KITCHENS, DINERS, CAFETERIAS** - To remove baked on carbon and grease inside ovens, fryers, etc, use full strength, scour with steel wool.  
**ASPHALT, VINYL TILE, LINOLEUM, RUBBER CONGOLEUM & COMPOSITION FLOORS** - For scuff marks & rubber burn removal use 1 part BIG D to 7 parts water. Rinse with water. For wax stripping use 1 part BIG D to 3 parts water. Rinse with water. For extremely heavy build-up use full strength. Rinse with water and wipe. For general cleaning of soiled floors use 1 part BIG D to 10 parts water. Rinse with water.  
**TERRAZZO, MARBLE, & MAGNESITE FLOORS** - For wax stripping and general cleaning use 1 part to 2 parts water. Rinse with water and wipe.  
**CONCRETE & CEMENT FLOORS** - Use full strength. Rinse with water.  
**LAVATORY BASINS** - Use full strength. Rinse with water.  
**STEAM JENNY CLEANING** - Use 1 gal. to 5 gals. water. Follow regular steam cleaning procedure.  
**PARA LA LIMPIEZA GENERAL** - Diluya 1 parte BIG D con 15 partes de agua.  
**PAREDES Y SUPERFICIES PINTADAS** - Use 1 parte con 12 partes de agua. Enjuague con agua y segue frontando.  
**COCINAS, RESTAURANTES, CAFETERIAS** - Use sin diluir con esponja de alambre o estropajo de aluminio (steel wool) para remover el carbon y grasa pegada dentro de hornos, freidores, etc.  
**PISOS DE ASFALTO, LOZAS DE VINYL, LINOLEO, GOMA Y COMPUESTOS** - Use 1 parte con 7 partes de agua para remover marcas de zapatos y quemaduras de goma. Enjuague con agua. Use 1 parte con 3 partes de agua para remover cera. Enjuague con agua. Para una concentracion extrema, uselo sin diluir. Enjuague con agua y limpie con trapo o pano. Use 1 parte con 10 partes de agua para la limpieza general en pisos sucios. Enjuague con agua.  
**PISOS DE CONCRETO Y CEMENTO** - Use sin diluir. Enjuague con agua.  
**LAVAMANOS Y LAVABOS** - Use sin diluir. Enjuague con agua.  
**LIMPIEZA A VAPOR** - Use 5 galones de agua por galon. Siga los procedimientos regulars para cuando limpia a vapor.

### SAFETY DATA

#### CAUTION

Avoid contact with eyes and skin. Do not take internally.  
Evite el contacto con los ojos y piel. No debe ingerirse.

#### FIRST AID

**EYES:** Flush with water for at least 15 minutes. Call a physician.  
**SKIN:** Wash off with soap and water.  
**INGESTION:** Do not induce vomiting. Drink large quantities of water, milk or other liquids. If vomiting occurs continue to give liquids. Call a physician.  
**oJoS:** Enjuague con agua por 10 menos por 15 minutos. Llame a un medico.  
**PIEL:** Lave con agua y jabon.  
**SI ES INGERIDO:** No induzca el vomito. De grandes cantidades de agua, leche u otros liquidos. Continue dando liquido si ocurre el vomito. Llame a un medico.

**FOR INDUSTRIAL USE ONLY. • KEEP OUT OF REACH OF CHILDREN.**

MADE IN THE  
USA



A Division of Diamond Chemical Co., Inc.

### TECHNICAL DATA

Type Product ... Detergent degreaser  
Containing  
Butylcellosolve  
Appearance .... Clear Liquid  
Color .... Purple  
Scent .... Mild Solvent  
pH As Is ..... 12-13  
pH 1% Solution ... 10-11  
Flash Point .... None  
Viscosity ... 10 CPS  
Residue .... None Upon Rinsing  
Foam ..... Light  
Solubility ..... Complete  
Stability ..... Stable 18 Months +  
Specific Gravity ... 1.03



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

**1 Identification**

- **Product identifier**
- **Trade name: Big D Cleaner-Degreaser**
- **Article number: 4640**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
STARCO CHEMICAL  
A Division of Diamond Chemical Co., Inc.  
Union Avenue & Dubois Street  
East Rutherford, NJ 07073  
Telephone: 201-935-4300
- **Information department:** Product safety department
- **Emergency telephone number:** INFOTRAC - 1-800-535-5053

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05

- **Signal word** Danger

- **Hazard statements**

Causes severe skin burns and eye damage.

- **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not breathe dusts or mists.

Wear eye protection / face protection.

Wash thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: **Big D Cleaner-Degreaser**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a poison center/doctor.  
 Specific treatment (see on this label).  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Wash contaminated clothing before reuse.  
 If eye irritation persists: Get medical advice/attention.  
 If swallowed: Rinse mouth. Do NOT induce vomiting.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**  
 NFPA ratings (scale 0 - 4)  
 Health = 3  
 Fire = 0  
 Reactivity = 0



**HMS-ratings (scale 0 - 4)**  
 Health = 3  
 Fire = 0  
 Reactivity = 0

HEALTH	3
FIRE	0
REACTIVITY	0

**Other hazards**  
 Results of PBT and VPB assessment  
 PBT: Not applicable.  
 VPB: Not applicable.

## 3 Composition/Information on ingredients

**Chemical characterization: Mixtures**  
 Description: Mixture of the substances listed below with nonhazardous additions.

**Components:**

111-76-2	2-butoxyethanol	Prop. %
1310-73-2	sodium hydroxide	Prop. %
127087-87-0	Poly(oxy-1,2-ethanediyl),alpha-(4 nonylphenyl)-omega-hydroxy-, branched	Prop. %

## 4 First-aid measures

**Description of first aid measures**  
 General information: Immediately remove any clothing soiled by the product.  
 After inhalation: In case of unconsciousness place patient stably in side position for transportation.  
 After skin contact: Immediately wash with water and soap and rinse thoroughly.  
 After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.  
 After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.  
 Information for doctor:  
 Most important symptoms and effects, both acute and delayed  
 No further relevant information available.

(Contd. on page 3)

usa

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: **Big D Cleaner-Degreaser**

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 4)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: **Big D Cleaner-Degreaser**

(Contd. of page 3)

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

111-76-2-butoxyethanol	
REL	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm
PEL	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm
REL	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm
PEL	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm
TLV	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm
BEI	

**1310-73-2 sodium hydroxide**

REL	Ceiling limit value: 2 mg/m <sup>3</sup>
PEL	Long-term value: 2 mg/m <sup>3</sup>
TLV	Ceiling limit value: 2 mg/m <sup>3</sup>

**Ingredients with biological limit values:**

111-76-2-butoxyethanol	
BEI	200 mg/g creatinine
Medium:	urine
Time: end of shift	
Parameter:	Butoxyacetic acid with hydrolysis

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 5)

usa

## Safety Data Sheet

acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: **Big D Cleaner-Degreaser**

(Contd. of page 4)

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	In water
Color:	Violet
· Odor:	Characteristic
· Odour threshold:	Not determined.
· pH-value at 20 °C (68 °F):	12.5
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density at 20 °C (68 °F):	1.02 g/cm <sup>3</sup> (8.512 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not determined.

(Contd. on page 6)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: Big D Cleaner-Degreaser

(Contd. of page 5)

**Kinematic:**

Not determined.

No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
- 1310-73-2 sodium hydroxide
- Oral LD50 2000 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Corrosive
- Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Carcinogenic categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.

(Contd. on page 7)

usa



## Safety Data Sheet

acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: **Big D Cleaner-Degreaser**

(Contd. of page 6)

- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p>NA1760 UN3267</p>
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p>Compounds, cleaning liquid (sodium hydroxide) (Sodium hydroxide) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM HYDROXIDE)</p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	<p>8 Corrosive substances</p>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>	<p>8 Corrosive substances</p>



(Contd. on page 8)

USA


**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: **Big D Cleaner-Degreaser**

(Contd. of page 7)

· Label	8
· IMDG, IATA	
	8
	8 Corrosive substances
· Class	8
· Label	8
· Packing group	III
· DOT, IMDG, IATA	
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances
· Danger code (Kemler):	80
· EMS Number:	F-A, S-B
· Segregation groups	Alkalis
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	On passenger aircraft/rail: 5 L
· Quantity limitations	On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
· Maximum net quantity per inner packaging: 30 ml	
· Maximum net quantity per outer packaging: 1000 ml	
· UN "Model Regulation":	UN3267, Corrosive liquid, basic, organic, n.o.s. (Sodium hydroxide), 8, III

**15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- Section 355 (extremely hazardous substances):  
None of the ingredients is listed.
- Proposition 65  
Chemicals known to cause cancer:  
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for females:  
None of the ingredients is listed.

(Contd. on page 9)

usa

## Safety Data Sheet

acc. to OSHA HCS

Printing date 04/15/2015

Reviewed on 01/29/2015

Trade name: **Big D Cleaner-Degreaser**

(Contd. of page 8)

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

111-76-2 | 2-butoxyethanol

NL

· **TLV (Threshold Limit Value established by ACGIH)**

111-76-2 | 2-butoxyethanol

A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard statements**

Causes severe skin burns and eye damage.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not breathe dusts or mists.

Wear eye protection / face protection.

Wash thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

If eye irritation persists: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

USA

(Contd. on page 10)

Trade name: Big D Cleaner-Degreaser

(Contd. of page 9)

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Date of preparation / last revision 04/15/2015 / -**

**Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMTS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

**\* Data compared to the previous version altered.**

USA