



6703 E 27 St, Tulsa, OK 74129  
918-346-3504

## Safety Data Sheet Cobra Clean

### 1. IDENTIFICATION

Synonyms none  
CAS#  
Material Use liquid cleaning formula

**IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053**

### 2. HAZARD IDENTIFICATION

GHS Class *skin corrosive*  
(Category) *(1)*  
Signal Words **DANGER**  
  
Hazard Statements *causes severe skin  
burns & eye damage  
(H314)*



#### GHS Precautionary Statements for Labeling

P262 Do not get in eyes, on skin or on clothing.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear eye protection, protective gloves and clothing of rubber, neoprene or butyl.  
P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

### 3. COMPOSITION

|   | CAS<br>NUMBER     | %       | TLV<br>ppm / mg/m <sup>3</sup> | LD <sub>50</sub> (mg/kg)<br>ORAL | LD <sub>50</sub> (mg/kg)<br>SKIN | LC <sub>50</sub> ppm<br>INHALATION |
|---|-------------------|---------|--------------------------------|----------------------------------|----------------------------------|------------------------------------|
| 2-Butoxyethanol                             | 111-76-2          | 1-5%    | 20/100 (skin)                  | >300                             | >450                             | >450                               |
| Amphoteric Surfactant (a)                   | <i>on request</i> | 1-5%    | not listed                     | not known                        | not known                        | not known                          |
| Amphoteric Surfactant (b)                   | <i>on request</i> | <1%     | not listed                     | >4900                            | not known                        | not known                          |
| Sodium Hydroxide                            | 1310-73-2         | <1%     | 2mg/m <sup>3</sup>             | over 500                         | 1350                             | not known                          |
| Sodium Metasilicate ( <i>pentahydrate</i> ) | 6834-92-0         | <1%     | not listed                     | 850                              | not known                        | not known                          |
| Sodium Tripentaphosphate                    | 7758-29-4         | <1%     | not listed                     | >3120                            | >4640                            | >>390                              |
| Anionic Surfactant                          | <i>on request</i> | <1%     | not listed                     | >7200                            | >2000                            | not known                          |
| Water                                       | 7732-18-5         | balance | not toxic                      | 90,000                           | not toxic                        | not toxic                          |

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#### 4. FIRST AID

|             |   |
|-------------|---|
| SKIN:       | Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.                           |
| EYES:       | Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if irritation persists.  |
| INHALATION: | Remove from contaminated area promptly. <b>CAUTION: Rescuer must not endanger himself!</b> If victim's breathing stops, administer artificial respiration and seek medical aid promptly.                                  |
| INGESTION:  | Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly. |

*NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.*

#### 5. FLAMMABILITY & FIRE-FIGHTING

|                          |  |
|--------------------------|--|
| Flash Point              | cannot burn  |
| Autoignition Temperature | cannot burn  |
| Flammable Limits         | cannot burn  |
| Combustion Products      | oxides of carbon, nitrogen & phosphorous, part oxidised hydrocarbon fragments        |
| Firefighting Precautions | as for materials sustaining fire; compatible with water; firefighters must wear SCBA |
| Static Discharge         | cannot accumulate a static charge  |

#### 6. ACCIDENTAL RELEASE MEASURES

|                 |  |
|-----------------|--|
| Leak Precaution | dyke to control spillage and prevent environmental contamination   |
| Handling Spill  | recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal |

#### 7. HANDLING & STORAGE

Store and use away from strong acids, strong alkalis and oxidising agents. Never cut, drill, weld or grind on or near this container, whether empty or full. Always replace drum, pail or IBC cap prior to moving the container!

Avoid generating or breathing product vapour or mist. If mist or vapour form in use, ensure adequate ventilation to maintain airborne concentration of the product below the TLV (*see Part 8, below*).

Avoid prolonged contact with skin & wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

#### 8. EXPOSURE CONTROL & PERSONAL PROTECTION

##### ***2-Butoxyethanol:***

|           |                                     |            |            |
|-----------|-------------------------------------|------------|------------|
| ACGIH TLV | 20ppm / 96mg/m <sup>3</sup> (skin)  | ACGIH STEL | not listed |
| OSHA PEL  | 50ppm / 240mg/m <sup>3</sup> (skin) | OSHA STEL  | not listed |

##### ***Sodium Hydroxide:***

|                |                    |            |            |
|----------------|--------------------|------------|------------|
| ACGIH TLV-C    | 2mg/m <sup>3</sup> | ACGIH STEL | not listed |
| OSHA PEL-C (T) | 2mg/m <sup>3</sup> | OSHA STEL  | not listed |

|             |  |
|-------------|--|
| Ventilation | no special mechanical ventilation required   |
| Hands       | natural rubber or neoprene or butyl gloves are recommended – <i>always confirm suitability with supplier</i> |
| Eyes        | safety glasses with side shields or chemical goggles – <i>always protect eyes!</i>                           |
| Clothing    | no special protective clothing required  |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| Odor & Appearance                             | clear, colorless, liquid with slight "bland" odor    |
| Odor Threshold                                | not known – <i>nearly odorless</i>                   |
| Vapor Pressure                                | as for water   |
| Evaporation Rate ( <i>Butyl Acetate = 1</i> ) | as for water   |
| Vapour Density (air = 1)                      | 0.6 ( <i>water</i> ), 4.1 ( <i>2-butoxyethanol</i> ) |
| Boiling Point                                 | slightly above 100°C / 212°F                         |
| Freezing Point                                | slightly below 0°C / 32°F                            |
| Specific Gravity                              | 1.0-1.1 (20/20°C)                                    |
| Water Solubility                              | complete   |
| Viscosity                                     | not known – <i>thin mobile liquid</i>                |
| pH  | 12.4   |

## 10. REACTIVITY

|                           |   |
|---------------------------|---|
| Dangerously Reactive With | none known  |
| Also Reactive With        | strong acids, strong oxidizing agents; may corrode aluminum |
| Chemical Stability        | stable; will not polymerize                                 |
| Decomposes in Presence of | no decomposition initiator known                            |
| Decomposition Products    | none apart from Hazardous Combustion Products               |
| Mechanical Impact         | not sensitive   |

## 11. TOXICITY INFORMATION

### ***i. ACUTE EXPOSURE***

|                 |   |
|-----------------|---|
| Skin Contact    | irritating; corrosive if contact is prolonged             |
| Skin Absorption | yes, slowly; toxic effects unlikely by this route         |
| Eye Contact     | corrosive to eyes; permanent damage possible              |
| Inhalation      | product mist likely to irritate the respiratory system    |
| Ingestion       | irritating, possibly corrosive to mouth, throat & stomach |

### ***ii. CHRONIC EXPOSURE***

|                                    |   |
|------------------------------------|---|
| General                            | prolonged or repeated exposure to dilute material may cause dermatitis                            |
| Sensitizing                        | not a sensitizer  |
| Carcinogen/Tumorigen               | not known as a tumorigen or a carcinogen in humans; 2-butoxyethanol is an animal carcinogen (A 3) |
| Carcinogen/Tumorigen               | not known to be a tumorigen or a carcinogen in humans or animals                                  |
| Reproductive Effect                | no known effect on humans or animals  |
| Mutagen                            | not known to be a mutagen or teratogen in humans or animals                                       |
| Synergistic With                   | not known   |
| Calculated LD <sub>50</sub> (oral) | 9280mg/kg (rat)   |
| Calculated LD <sub>50</sub> (skin) | 15,480mg/kg (rabbit)  |
| LC <sub>50</sub> (inhalation)      | <i>insufficient information to calculate</i>  |

## 12. ECOLOGICAL INFORMATION

### ***2-Butoxyethanol:***

|                                    |  |
|------------------------------------|--|
| Bioaccumulation                    | rapidly eliminated from the body, cannot bioaccumulate; biological ½-life <48hr                      |
| Biodegradation                     | biodegrades readily & rapidly in the presence of oxygen; 75%-100% in 20-28 days                      |
| Abiotic Degradation                | reacts with atmospheric hydroxyl radicals; estimated ½-life in air 16 hours                          |
| Mobility in soil, water            | water soluble; moves readily & rapidly in soil and water   |
| <b>Aquatic Toxicity</b>            |  |
| LC <sub>50</sub> (Fish, 96hr)      | 1490 & 2950mg/litre ( <i>Lepomis macrochirus</i> ), 1250mg/litre ( <i>Menidia beryllina</i> ),       |
| EC <sub>50</sub> (Crustacea, 24hr) | 1700-1940 & 5000mg/litre ( <i>Daphnia magna</i> ), 600-1000mg/litre ( <i>Crangon crangon</i> , 48hr) |
| EC <sub>50</sub> (Algae)           | 35mg/litre ( <i>Microcystis aeruginosa</i> ), 900mg/litre ( <i>Scenedesmus quadricauda</i> )         |
| EC <sub>50</sub> (Bacteria)        | 911mg/litre ( <i>Chilomonas paramecium</i> ), 700mg/litre ( <i>Pseudomonas putida</i> )              |

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**12. ECOLOGICAL INFORMATION, cont'd****Amphoteric Surfactant (a):**

|                         |  |
|-------------------------|--|
| Bioaccumulation         | water soluble; cannot bioaccumulate  |
| Biodegradation          | biodegrades readily & rapidly in the presence of oxygen; 84% in 20 days, 97% & 100% in 28 days |
| Abiotic Degradation     | estimated ½-life in air is unknown   |
| Mobility in soil, water | water soluble; moves readily in soil and water   |

**Aquatic Toxicity**

|                                    |   |
|------------------------------------|---|
| LC <sub>50</sub> (Fish, 96hr)      | 1.8, 2, 6.7 & 10mg/litre (Brachydanio rerio)    |
| EC <sub>50</sub> (Crustacea, 48hr) | 1.9, 6.5 & 21.7mg/litre (Daphnia magna)         |
| EC <sub>50</sub> (Algae)           | 1.8, 2.4 & 30mg/litre (Scenedesmus subspicatus) |
| EC <sub>0</sub> (Bacteria)         | >10,000mg/litre (Pseudomonas putida)            |

**Amphoteric surfactant (b):**

|                         |   |
|-------------------------|---|
| Bioaccumulation         | not known   |
| Biodegradation          | not readily biodegradable   |
| Abiotic Degradation     | not known   |
| Mobility in soil, water | water soluble; moves readily through soil & the water column  |
| <b>Aquatic Toxicity</b> | <b>no actual aquatic toxicity data available – said (by two manufacturers) to be harmless to aquatic life</b> |

**Sodium Hydroxide:**

|                                     |   |
|-------------------------------------|---|
| Bioaccumulation                     | not a bioaccumulator  |
| Biodegradation                      | inorganic product – cannot biodegrade   |
| Abiotic Degradation                 | not applicable in this formulation  |
| Mobility in soil, water             | water soluble; moves readily in soil and water  |
| <b>Aquatic Toxicity</b>             |   |
| LC <sub>50</sub> (Fish 96 hr)       | 125mg/litre (Gambusia affinis), 45mg/litre (Oncorhynchus mykiss) – mortality caused by alkalinity |
| LC <sub>100</sub> (Crustacea, 48hr) | 100-150mg/litre (Daphnia magna); 125-1000mg/litre (freshwater insect larvae)                      |
| EC <sub>50</sub> (Algae)            | no information  |
| EC <sub>50</sub> (Bacteria)         | 22mg/litre (Photobacterium phosphoreum)   |

**Sodium Metasilicate pentahydrate:**

|                                    |  |
|------------------------------------|--|
| Bioaccumulation                    | not a bioaccumulator   |
| Biodegradation                     | inorganic product – does not biodegrade  |
| Abiotic Degradation                | water-soluble substance, dilutes readily in the environment; combines with metal ions to form insoluble calcium, aluminum, magnesium & iron silicates similar to naturally occurring silicates |
| Mobility in soil, water            | water soluble; moves readily in soil and water   |
| <b>Aquatic Toxicity</b>            |  |
| LC <sub>50</sub> (Fish, 96hr)      | 365mg/litre (Brachydanio rerio), 4037mg/litre (Gambusia affinis)   |
| EC <sub>50</sub> (Crustacea, 96hr) | 376mg/litre (Daphnia magna), 1100mg/litre (Lymnia sp.), 278mg/litre (Hyallela sp.)   |
| EC <sub>50</sub> (Algae)           | no data  |
| EC <sub>0</sub> (Bacteria)         | >1740mg/litre (Pseudomonas putida) – this is an LC <sub>0</sub> – no inhibition at this dose   |

**Sodium Tripentaphosphate:**

|                                    |   |
|------------------------------------|---|
| Bioaccumulation                    | water soluble – cannot bioaccumulate  |
| Biodegradation                     | cannot biodegrade; plants will use it as a fertilizer ( <i>phosphate ion</i> ), removing it from the environment                          |
| Abiotic Degradation                | gradual (faster in acidic medium) hydrolysis to orthophosphate (coupled to various metal ions, most of which precipitate out of solution) |
| Mobility in soil, water            | water soluble, may move readily through soil & the water column; <i>phosphate precipitates with Mg<sup>++</sup> &amp; Ca<sup>++</sup></i> |
| Environmental                      | not toxic to marine life but promotes algal blooms on surface water & eventual eutrophication   |
| <b>Aquatic Toxicity</b>            |   |
| LC <sub>50</sub> (Fish, 48hr)      | 1600mg/litre (Leuciscus idus), >1850mg/litre (Pimepherlas promelas – 24 hr)   |
| EC <sub>50</sub> (Crustacea, 50hr) | 1089mg/litre (Daphnia magna), >50mg/litre (Lepadella patella), 277mg/litre (Cladoceran dubia) <sup>1</sup>                                |
| EC <sub>50</sub> (Algae, 72hr)     | 160 & 69mg/litre (Desmodesmus subspicatus) <sup>1</sup> , >900mg/litre (Skeletonema costatum) <sup>1</sup>                                |
| EC <sub>50</sub> (Bacteria)        | 1000mg/litre ( <i>domestic activated sludge</i> )   |

**Anionic Surfactant:**

|                                    |   |
|------------------------------------|---|
| Bioaccumulation                    | not a bioaccumulator  |
| Biodegradation                     | biodegrades readily & rapidly in the presence of oxygen; 69% in 5 days, 84%-88% in 28 day |
| Abiotic Degradation                | photodegradation occurs; estimated ½-life in air is ~40hr                                 |
| Mobility in soil, water            | water soluble; moves readily in soil and water  |
| <b>Aquatic Toxicity</b>            |   |
| LC <sub>50</sub> (Fish, 96hr)      | 400mg/litre (Onchorhunchus mykiss), 408mg/litre (Pimephales promelas)                     |
| EC <sub>50</sub> (Crustacea, 24hr) | 400 & 408mg/litre (Daphnia magna)   |
| EC <sub>50</sub> (Algae)           | 230mg/litre (Selenastrum capricornutum)   |
| EC <sub>50</sub> (Bacteria)        | not known – rapid biodegradability suggests low level of harm to bacteria                 |

**cont'd next page****PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.****EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**

**13. DISPOSAL CONSIDERATIONS**

Waste Disposal **do not flush to sewer**; may be incinerated in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration; may be landfilled if local regulations permit

Containers **Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.  
**Pails** must be vented and thoroughly dried prior to crushing and recycling.  
**IBCs** (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years.  
**Warning: never cut, drill, weld or grind on or near this container, even if empty.**

**14. TRANSPORT INFORMATION****USA 49 CFR & Canada/International TDG**

|                               |                               |
|-------------------------------|-------------------------------|
| Product Identification Number | <b>Not regulated</b>          |
| Shipping Name                 |                               |
| Classification                |                               |
| <b>Marine Pollution</b>       | <b>not a marine pollutant</b> |
| <b>ERAP Required</b>          | <b>No</b>                     |

**15. REGULATIONS**

|               |                     |
|---------------|---------------------|
| Canada DSL    | <b>on inventory</b> |
| U.S.A. TSCA   | <b>on inventory</b> |
| Europe EINECS | <b>on inventory</b> |

**16. OTHER INFORMATION**

**Date of Preparation**                      **March 2015**

**Date of Revision**                        **-**

Prepared by Tracy Crow

*With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available*

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