




Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

| | | |
|-----------------------------------------------------------------------------------|--------------------------------------|----------------------------------|
|  | Not controlled under WHMIS (Canada). | HCS Class: Irritating substance. |
| WHMIS (Pictograms) | WHMIS (Classification) | HCS |

Section 1. Chemical Product and Company Identification

| | | | |
|-----------------------------|--------------------------------------------------------------------------------|-------------------------|-------------------------|
| Product Name/ Trade name | Top Flite (1:20) Dilution | Code | 1 5 0 (A t Dilution) |
| Synonym | High Performance Detergent | CAS # | Not applicable. |
| Chemical Family | Not available. | Validation Date | 3/2/2010 |
| Chemical Formula | Not applicable. | Print Date | 3/3/2010 |
| Manufacturer/ Supplier | Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156 | In Case of Emergency | Chemtrec (800) 424-9300 |
| TSCA | TSCA Inventory: All components listed or are exempt from listing. | | |
| DSL/ NDSL | All components listed unless noted elsewhere on this MSDS | | |
| Protective Clothing | | | |

Section 2. Composition and Information on Ingredients

| Name | CAS # | % by Weight | Exposure Limits | LC ₅₀ /LD ₅₀ |
|-----------------------------------------------------|------------|-------------|-----------------|---------------------------------------|
| Water | 7732-18-5 | >90 | Not available. | Not available. |
| Tetrasodium salt of ethylenediaminetetraacetic acid | 64-02-8 | 0-5 | Not available. | ORAL (LD50): Acute: 3030 mg/kg [Rat]. |
| Nonionic Surfactant | 9016-45-9 | 0-5 | Not available. | Not available. |
| Anionic Surfactant | 25155-30-0 | 0-5 | Not available. | Not available. |
| Triethanolamine | 102-71-6 | <1 | Not available. | ORAL (LD50): Acute: 4000 mg/kg [Rat]. |
| Anionic Surfactant | 5324-84-5 | <1 | Not available. | Not available. |
| Nonionic Surfactant | 66455-15-0 | <1 | Not available. | Not available. |
| Perfume Oil | N/A | <1 | Not available. | Not available. |
| Dye | N/A | <1 | Not available. | Not available. |

Section 3. Hazards Identification

| | |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential Acute Health Effects | This product may irritate eyes. Inflammation of the eye is characterized by redness, watering, and itching. Irritating to mouth, throat and stomach |
| Potential Chronic Health Effects | Repeated skin exposure can produce local skin destruction, or dermatitis. |
| Carcinogenic Effects | Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. |

Section 4. First Aid Measures

| | |
|---------------------|---------------------------------------------------------------------------------------|
| Eye Contact | In case of contact with eyes, rinse immediately with plenty of water. |
| Skin Contact | After contact with skin, wash immediately with plenty of water. |
| Inhalation | NO known EFFECT according to our data base. |
| Ingestion | Have conscious person drink several glasses of water or milk. Seek medical attention. |

Section 5. Fire Fighting Measures

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|---------------------------------------------|--------------------------|
| Products of Combustion | Not available. |
| Fire Fighting Media and Instructions | Non-flammable substance. |
| Special Remarks on Fire Hazards | Not available. |
| Special Remarks on Explosion Hazards | Not available. |

Section 6. Accidental Release Measures

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|-----------------------------------------------------|----------------------------------------------------------------------------------------------|
| Small Spill and Leak | Absorb with an inert material and place in an appropriate waste disposal container. |
| Large Spill and Leak | Absorb with an inert material and put the spilled material in an appropriate waste disposal. |
| Personal Protection in Case of a Large Spill | Safety glasses. Gloves. |

Section 7. Handling and Storage

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|------------------------|----------------------------------------------------------------------------------|
| Precautions | After handling, always wash hands thoroughly with soap and water. |
| Incompatibility | Not available. |
| Storage | Keep out of the reach of children. Not for use or storage in or around the home. |

Section 8. Exposure Controls/Personal Protection

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|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Controls | Good general ventilation should be sufficient to control airborne levels. |
| Personal Protection | |
| <i>Eyes</i> | Eye protection is generally not required under normal, intended conditions of product use. |
| <i>Body</i> | No special protective clothing is required. |
| <i>Respiratory</i> | A respirator is not needed under normal and intended conditions of product use. |
| <i>Hands</i> | Gloves are generally not required under normal, intended conditions of product use. Persons with skin conditions or sensitive skin may wish to wear gloves when using this product. |
| Protective Clothing (Pictograms) | |
| Exposure Limits | Not available. |

Section 9. Physical and Chemical Properties

| | | | |
|------------------------------------------------------------|--------------------------------|--------------|-----------------|
| Physical State and Appearance | Liquid. | Odor | Pleasant. |
| Molecular Weight | Not applicable. | Taste | Not available. |
| pH | 10 to 11 [Basic.] | Color | Green. (Light.) |
| Boiling/Condensation Point | 215°F initial | | |
| Melting/Freezing Point | Not available. | | |
| Critical Temperature | Not available. | | |
| Instability Temperature | Not available. | | |
| Specific Gravity | 1.04 (Water = 1) | | |
| Vapor Pressure | 17.54 mm Hg @ 68 F | | |
| Vapor Density | >1 (Air = 1) | | |
| Volatility | 85 | | |
| VOC | Not available. | | |
| Evaporation Rate | <1 compared to Water | | |
| | | | |
| | | | |
| | | | |
| Dispersion Properties | See solubility in water. | | |
| Solubility | Easily soluble in cold water. | | |
| The Product is: | Non-flammable. | | |
| Auto-ignition Temperature | Not available. | | |
| Flash Points | CLOSED CUP: >98.889°C (210°F). | | |
| Flammable Limits | Not available. | | |
| Fire Hazards in Presence of Various Substances | Non-flammable. | | |
| Explosion Hazards in Presence of Various Substances | Not applicable | | |

Section 10. Stability and Reactivity Data

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|------------------------------------------------|------------------------|
| Stability | The product is stable. |
| Incompatibility with Various Substances | Not available. |
| Hazardous Decomposition Products | Not available. |

Section 11. Toxicological Information

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|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Routes of Entry | Eye Contact Ingestion. Skin contact. |
| Toxicity to Animals | Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA). |
| Acute Effects on Humans | <i>Eyes</i> Mildly irritating to the eyes. <i>Skin</i> Slightly irritating <i>Inhalation</i> Non-irritating to the respiratory system. <i>Ingestion</i> May cause nausea, vomiting and diarrhea. May cause gastrointestinal discomfort. |
| Chronic Effects on Humans | Repeated skin exposure can produce local skin destruction, or dermatitis. |
| Special Remarks on Toxicity to Animals | No additional remark. |
| Special Remarks on Chronic Effects on Humans | No additional remark. |

Section 12. Ecological Information

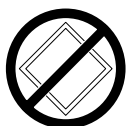
| | |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity | Not available. |
| BOD5 and COD | Not available. |
| Products of Biodegradation | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| Toxicity of the Products of Biodegradation | Not available. |
| Special Remarks on the Products of Biodegradation | No additional remark. |

Section 13. Disposal Considerations

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|-------------------|----------------------------------------------------------------------------------------------------------|
| Waste Information | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
| Waste Stream | Not available. |

Section 14. Transport Information

DOT (U.S.A)
(Pictograms)



TDG Classification Not controlled under TDG (Canada).



PIN UN, Proper Shipping Name, PG Not applicable.

Maritime Transportation Not available.

Special Provisions for Transport Not applicable.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) Not controlled under WHMIS (Canada).



Regulatory Lists No products were found.

Other Regulations Not available. or of its ingredients

Other Classifications HCS (U.S.A.) HCS Class: Irritating substance.

USA Regulatory Lists None Found
None Found

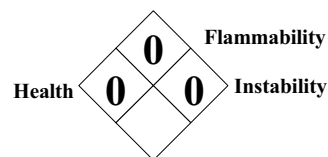
DSD (EEC) This product is not classified according to the EU regulations.

International Regulations Lists No products were found.

Hazardous Material Information System (U.S.A.)

| | |
|-----------------|---|
| Health | 1 |
| Flammability | 0 |
| Physical Hazard | 0 |

National Fire Protection Association (U.S.A.)



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Specific Hazard

Section 16. Other Information

Validated by CRushton on 12/2/2004.

Verified by CRushton.

Printed 8/22/2005.

Information Contact Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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