1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME  TroyCare™ FS10  
MANUFACTURER  Troy Chemical Corporation  
CHEMICAL NAME  Not applicable  
CHEMICAL FAMILY  Not applicable  
FORMULA  Proprietary  
SYNONYMS  None  

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
TroyCare™ FS10 is a free-flowing white to off-white powder with a characteristic odor. May cause slight eye and skin irritation following direct contact. May evolve iodine vapors during combustion. Toxic to aquatic organisms.

OSHA REGULATORY STATUS
While this material is not classified as hazardous under OSHA regulations, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

POTENTIAL HEALTH EFFECTS

ACUTE EFFECTS

INGESTION  Low acute oral toxicity  
SKIN  Direct contact may cause slight skin irritation.  
EYE CONTACT  Direct contact may cause mild eye irritation.  
INHALATION  None  

CHRONIC EFFECTS  None  
TARGET ORGANS  None  
CARCINOGENICITY  This product (or component) is not listed as a carcinogen according to OSHA, NTP, IARC, and ACGIH.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
May aggravate pre-existing skin disorders and allergies.

POTENTIAL ENVIRONMENTAL EFFECTS
This product is toxic to aquatic organisms. See Section 12 for additional information.

3. COMPOSITION/INFORMATION ON INGREDIENTS
The listed components are considered to be hazardous based on OSHA’s Hazard Communication Standard. For further regulatory information, see Section 15.

CHEMICAL NAME  3-iodo-2-propynyl butyl carbamate  
CAS#  55406-53-6  

4. FIRST AID MEASURES

INGESTION  Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.  

SKIN CONTACT  Rinse skin with plenty of water for several minutes. If irritation or redness persists, call a poison control center or doctor for treatment advice.  

EYE CONTACT  Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If symptoms persist, call a poison control center or doctor for treatment advice.  

INHALATION  If respiratory symptoms develop, remove from exposure area to fresh air immediately. If breathing is difficult, oxygen should be administered by qualified personnel. If symptoms persist, call a poison control center or doctor for further treatment advice.  

NOTES TO PHYSICIAN  Probable mucosal damage may contraindicate use of gastric lavage. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
This material may burn but does not ignite readily.

FIRE EXTINGUISHING MEDIA
Suitable extinguishing media -  Dry chemical, carbon dioxide, water spray, or regular foam. Extinguish using agent suitable for surrounding fire.  

Unsuitable extinguishing media -  Water jet

PROTECTION OF FIREFIGHTERS
Specific hazards arising from the chemical:  
Thermal decomposition may release the following hazardous substances  
Carbon monoxide, carbon dioxide, iodine vapors.  

Runoff from fire control or dilution water may cause pollution. May evolve vapors of iodine.  

Protective equipment and precautions for firefighters:  
Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing vapors, keep upwind. Positive pressure self-contained breathing apparatus with full facemask and structural firefighters’ protective clothing will provide limited protection.

6. ACCIDENTAL RELEASE MEASURES

Keep unnecessary people away from spill area. Wear protective equipment as specified in Section 8. Stop leak if you can do it without risk. For small dry spills, shovel material into clean, dry container and cover loosely; move containers from spill area. For large dry spill, cover spill with plastic sheet or tarp to minimize spreading or, if wet, dike far ahead of liquid spill for later disposal. If water pollution occurs, notify the appropriate authorities.

Observe all Federal, State, and Local regulations regarding notifications of accidental releases.
SAFETY DATA SHEET (SDS)

TROY CORPORATION
8 Vreeland Road
Florham Park, NJ 07932

FOR SDS INFORMATION: (973) 589-2500
24 HOUR EMERGENCY PHONE NUMBER
CHEMTREC 1-800-424-9300

TroyCare™ FS10
Product Code: 20014
Effective Date: December 23, 2013
Replaces: November 8, 2013

7. HANDLING & STORAGE
Avoid contact with eyes, skin, or clothing. Avoid breathing dust. Wash thoroughly after handling. Keep container tightly closed. Use only with adequate ventilation. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Avoid breakage of bagged material or spills of bulk material. Store away from incompatible substances in a cool, dry, ventilated area. Store at temperatures <40°C (104°F). Protect from moisture. Do not contaminate water, food, or feed by storage or disposal.
Observe all Federal, State, and Local regulations when storing or disposing of this substance.

8. PERSONAL PROTECTION/EXPOSURE CONTROLS
EXPOSURE GUIDELINES
None established
VENTILATION
Provide adequate ventilation or local exhaust to minimize exposure.
EYE/FACE PROTECTION
May cause mild eye irritation. If potential for contact with material exists, use safety glasses with sideshields or other approved eye protection.
SKIN PROTECTION
Respiratory protection is not normally required however whenever workplace conditions warrant the use of a respirator, a respiratory protection program meeting OSHA 1910.134 must be followed utilizing a NIOSH/MSHA-approved respirator.
OTHER
Eywesh should be available within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES
| APPEARANCE                     | Free-flowing white to off-white powder |
| BULK DENSITY AT 22°C.          | 1.18 g/cm³ |
| WATER SOLUBILITY               | Partially soluble |
| ODOR                           | Characteristic |
| pH (1% aqueous solution)       | 8.5 |
| FREEZING/MELTING POINT         | Does not freeze |
| INITIAL BOILING POINT          | Not applicable |
| FLASH POINT (ASTM D3278-96)    | Not applicable |
| (Setaflash Closed cup)         | Not applicable |
| EVAPORATION RATE (Butyl acetate=1) | Not applicable |
| FLAMMABLE LIMITS               | Not applicable |

10. STABILITY & REACTIVITY
REACTIVITY
Stable under normal temperatures and pressures.
CONDITIONS TO AVOID
Avoid excessive heat, exposure to sunlight.
INCOMPATIBILITY
Avoid contact with strong acids (pH <2), bases (pH >10), and oxidizing agents.
HAZARDOUS DECOMPOSITION
Decomposition may release carbon monoxide, carbon dioxide, and iodine vapors.
HAZARDOUS POLYMERIZATION
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION
No data is available on this product, however, toxicological data is included on the hazardous ingredients. For additional information, contact Troy Corporation:
ACUTE ORAL EFFECTS
IPBC: LD50 (oral, rat-female) - 1056 mg/kg.; LD50 (oral, rat-male) - 1795 mg/kg.
ACUTE SKIN EFFECTS
IPBC: LD50 (dermal, rabbit) >2000 mg/kg., slight irritant.
ACUTE EYE EFFECTS
IPBC: Severe irritation and corrosive (rabbit). The corrosion is completely reversible and the irritation is markedly reduced by the irrigation of the eyes with water 20-30 seconds after exposure to test sample.
ACUTE INHALATION EFFECTS
IPBC: LC50 (rat,4 hr) - 680 mg/m³.
SUBCHRONIC EFFECTS AND OTHER STUDIES
For additional information on ingredients, contact Troy Corporation.

12. ECOLOGICAL INFORMATION
ECOTOXICITY
This product is toxic to aquatic organisms. Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters.
Data on 3-iodo-2-propynyl butyl carbamate (IPBC) is as follows:
LC50 (rainbow trout, 96 hr flow-through) - 67 µg/L.
EC50 (daphnia magna, 48 hr) - 0.16 mg/L.
EC50 (Scenedesmus subspicatus, 72 hr) - 22 µg/L.
ENVIRONMENTAL FATE
The fate of IPBC is quite favorable. Degradation is rapid and occurs through biological as well as non-biological processes. Classified as readily biodegradable. Low potential to bioaccumulate.
Octanol/water partition coefficient: LogP_{ow} = 2.81
COD: 1148 mg/L.

13. DISPOSAL INFORMATION
RCRA HAZARDOUS WASTE
This product is not a RCRA hazardous waste by definition.
WASTE DISPOSAL PROCEDURE
The user of this material has the responsibility to dispose of unused material, residues, and containers in compliance with all Federal, State, and Local Regulations.
SAFETY DATA SHEET (SDS)

TROY CORPORATION
8 Vreeland Road
Florham Park, NJ 07932
FOR SDS INFORMATION: (973) 589-2500
24 HOUR EMERGENCY PHONE NUMBER
CHEMTREC 1-800-424-9300
TroyCare™ FS10
Product Code: 2014
Effective Date: December 23, 2013
Replaces: November 8, 2013

14. TRANSPORTATION INFORMATION

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<th>UN3077 Environmentally hazardous substance, solid n.o.s. (contains: 3-iodo-2-propynyl butyl carbamate)</th>
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Note: While this product is considered hazardous for transport according to IMDG and IATA regulations, it is not regulated when transported in non-bulk containers as per DOT (49CFR 171.4(c))

15. REGULATORY INFORMATION

CERCLA SECTION 103 (40CFR302.4)
This product does not contain any chemicals that are reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

SARA SECTION 302 (40CFR355.30), SARA SECTION 304 (40CFR355.40)
This product does not contain any chemicals that require emergency planning based on Threshold Planning Quantities (TPQ) or release reporting based on Reportable Quantities (RQ).

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21)

<table>
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<th>ACUTE</th>
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<th>FIRE</th>
<th>REACTIVE</th>
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SARA SECTION 313 (40CFR372.65)
This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-to-Know Act of 1986. This information must be included in all SDS's that are copied and distributed for this material.

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<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
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<tr>
<td>3-iodo-2-propynyl butyl carbamate</td>
<td>55406-53-6</td>
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CHEMICAL INVENTORIES
The ingredients of this product are all on the following Chemical Substance Inventories, are exempt from the Inventories, or are otherwise compliant with inventory requirements of the governing agency.

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<th>TSCA</th>
<th>EINECS</th>
<th>DSL</th>
<th>AICS</th>
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CALIFORNIA PROPOSITION 65
This product does not contain any substances that are currently on the list of Known Carcinogens and Reproductive Toxins, at levels which would require a warning under the statute.

STATE RIGHT-TO-KNOW
For additional information on components that require listing for compliance with State Right-to-Know regulations, contact Troy Corporation.

16. OTHER

REVISIONS
Prepared by: Environmental and Regulatory Affairs Dept.
This SDS has been revised in the following sections: (revisions indicated in left border)
Minor correction

ABBREVIATIONS
PNOC - Particulates not otherwise classified
PNOR - Particulates not otherwise regulated
STEAL - Short-term exposure limit
TLV - Threshold limit value
TWA - Time-weighted average

HMIS RATING

<table>
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<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>PERSONAL PROTECTION</th>
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The information contained in this SDS is believed to be accurate and reliable as of issue date, but no representation, guarantee, or warranty, express or implied, is made to the accuracy, reliability, or completeness of the information. It is provided for the purpose of complying with hazard communication regulations. It is not intended as performance information or specifications for the product. It is the user's responsibility to determine the suitability of the product for his own use. Troy does not assume legal responsibility for reliance on information herein.

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