SAFETY DATA SHEET (SDS)

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: TroyCare™ FP06

MANUFACTURER: Troy Chemical Corporation

CHEMICAL NAME: Not applicable

CHEMICAL FAMILY: Not applicable

FORMULA: Proprietary

SYNONYMS: None

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

TroyCare™ FP06 is a clear amber liquid with a mild characteristic odor. May cause slight skin irritation. 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

ROUTES OF ENTRY

INGESTION, skin contact, eyes, inhalation

ACUTE EFFECTS

INGESTION

Low acute oral toxicity

SKIN

Slight skin irritation.

EYE CONTACT

Essentially non-irritating.

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

There are no known conditions aggravated by exposure to this product.

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 | CAS# | %
--- | --- | ---
3-iodo-2-propynyl butyl carbamate | 55406-53-6 | 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 immediately with plenty of water for 15-20 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 following ingestion.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

This material may burn but does not ignite readily.

**FLAMMABLE PROPERTIES**

**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 spills, absorb with vermiculite or other noncombustible absorbent material and place into containers for later disposal. For large spills, 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
USA

FOR SDS INFORMATION: 1-973-589-2500 (USA)
24 HOUR EMERGENCY PHONE NUMBER
CHEMTREC 1-703-527-3887 (USA)

TroyCare™ FP06
Product Code: 10229
Effective Date: January 17, 2014
Replaces: December 23, 2013

7. HANDLING & STORAGE

Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or mist. Wash thoroughly after handling. Keep container tightly closed. Use only with adequate ventilation. Store away from incompatible substances in a cool, dry, ventilated area. Do not store at temperatures below 32°F (0°C). 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
Essentially non-irritating. If potential for contact with material exists, use safety glasses with sideshields or other approved eye protection.

SKIN PROTECTION
Direct contact may cause slight skin irritation. Wear impervious gloves and apron to prevent skin contact.

RESPIRATORY PROTECTION
Respiratory protection is not normally required. If product is heated or misted, a NIOSH/MSHA-approved respirator should be used based on exposure levels found in the workplace. A respiratory protection program meeting OSHA 1910.134 must be followed whenever workplace conditions warrant the use of a respirator.

OTHER
Eyewash should be available within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Clear amber liquid

SPECIFIC GRAVITY AT 25°C. (Water=1)
1.18-1.23

ODOR
Mild characteristic odor

WATER SOLUBILITY
Soluble

pH
(1% aqueous solution)
6.5-7.5

AUTOIGNITION TEMPERATURE
Not applicable

MELTING/FREEZING POINT
Not determined

DECOMPOSITION TEMPERATURE
>200°C (>392°F)

INITIAL BOILING POINT
100°C (212°F)

VISCOSITY (Gardner) AT 25°C.
Not determined

FLASH POINT (ASTM D3278-96)
(Setaflash Closed cup)
Not applicable

% VOLATILES BY WEIGHT
47% (typ)

EVAPORATION RATE (Butyl acetate=1)
<1

VAPOR PRESSURE AT 20°C.
Not determined

VAPOR DENSITY (Air=1)
>1

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

ACUTE ORAL EFFECTS
LD50 (oral, rat-female) - 4160 mg/kg.; LD50 (oral, rat-male) > 5000 mg/kg.

ACUTE SKIN EFFECTS
LD50 (dermal, rabbit) >2000 mg/kg.; Slight skin irritation (rabbit). This product is not a skin sensitizer.

ACUTE EYE EFFECTS
Practically non-irritating.

ACUTE INHALATION EFFECTS
LC50 (rat,4 hr) > 2.03 mg/L.

SUBCHRONIC EFFECTS AND OTHER STUDIES
For additional information on ingredients, contact Troy Corporation.

12. ECOLOGICAL INFORMATION

Ecotoxicological data is included on OSHA hazardous ingredients. For additional information, contact Troy Corporation:

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.

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Effective Date: January 17, 2014
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14. TRANSPORTATION INFORMATION

DOT SHIPPING NAME
UN3082 Environmentally hazardous substance, liquid n.o.s. (contains: 3-iodo-2-propynyl butyl carbamate)
9 PG III, Marine Pollutant, ERG# 171

LABELS REQUIRED
Class 9, Marine Pollutant

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))

IATA SHIPPING NAME
UN3082, Environmentally hazardous substance, liquid n.o.s. (contains: 3-iodo-2-propynyl butyl carbamate)
9 PG III, ERG# 9L

LABELS REQUIRED
Class 9, (Environmentally Hazardous - contents greater 5 L)

IMDG SHIPPING NAME
UN3082, Environmentally hazardous substance, liquid n.o.s. (contains: 3-iodo-2-propynyl butyl carbamate)
9 PG III, Marine Pollutant, EMS# F-A, S-F

LABELS REQUIRED
Class 9, Marine Pollutant

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>
<th>CHRONIC</th>
<th>FIRE</th>
<th>REACTIVE</th>
<th>PRESSURE</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.

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
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<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>
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<th>China</th>
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CALIFORNIA PROPOSITION 65
This product contains propylene oxide which is known by the State of California to cause cancer.

STATE RIGHT-TO-KNOWLED
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)
Sec. 9 (pH)

ABBREVIATIONS

<table>
<thead>
<tr>
<th>PNOC - Particulates not otherwise classified</th>
<th>PNO - Particulates not otherwise regulated</th>
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<tbody>
<tr>
<td>STEL - Short-term exposure limit</td>
<td>TLV - Threshold limit value</td>
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<td>TWA - Time-weighted average</td>
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HMIS RATING

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<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</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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