# Safety Data Sheet

2P-10 Activator

Revision date: November 2015

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

2P-10 Activator

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of the substance/mixture**

- Industrial and professional use.

**Uses advised against**

- Any non-intended use.

### 1.3. Details of the supplier of the safety data sheet

- **Company name:** FastCap LLC
- **Place:** 5016 Pacific Highway Ferndale, WA 98248
- **Telephone:** +1 360-752-2138
- **Internet:** www.fastcap.com
- **Responsible Department:** info@fastcap.com
- **Chemtrec (Domestic North America):** +1 800-424-9300
- **Chemtrec (International):** +1 703-527-3887

### 1.4. Emergency telephone number:

- Chemtrec (Domestic North America): +1 800-424-9300
- Chemtrec (International): +1 703-527-3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No. 1272/2008**

- **Hazard categories:**
  - Flammable liquid: Flam. Liq. 2
  - Serious eye damage/eye irritation: Eye Irrit. 2
  - Specific target organ toxicity - single exposure: STOT SE 3
- **Hazard Statements:**
  - Highly flammable liquid and vapour.
  - Causes serious eye irritation.
  - May cause drowsiness or dizziness.

### 2.2. Label elements

**Regulation (EC) No. 1272/2008**

- **Hazardous components which must be listed on the label:**
  - Acetone
- **Signal word:** Danger
- **Pictograms:**

### Hazard statements

- **H225**
  - Highly flammable liquid and vapour.
- **H319**
  - Causes serious eye irritation.
- **H336**
  - May cause drowsiness or dizziness.

### Precautionary statements

- **P210**
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **P312**
  - Call a POISON CENTER/doctor if you feel unwell.
- **P337+P313**
  - If eye irritation persists: Get medical advice/attention.
- **P370+P378**
**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

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**P403+P233**

Store in a well-ventilated place. Keep container tightly closed.

**P501**

Dispose of waste according to applicable legislation.

**Special labelling of certain mixtures**

EUH066  Repeated exposure may cause skin dryness or cracking.

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### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

**Hazardous components**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Index No</th>
<th>REACH No</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone; propan-2-one; propanone</td>
<td>50-100 %</td>
<td></td>
</tr>
<tr>
<td>99-97-8</td>
<td>N,N-dimethyl-p-toluidine</td>
<td>1 - &lt; 5 %</td>
<td></td>
</tr>
</tbody>
</table>

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Full text of H and EUH statements: see section 16.

**Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). In all cases of doubt, or when symptoms persist, seek medical advice.

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### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation causes narcotic effects/intoxication.

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### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

 UNSuitable extinguishing media
- High power water jet. High power water jet.

5.2. Special hazards arising from the substance or mixture
- Combustible. Vapours may form explosive mixtures with air.
- Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters
- Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information
- Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
- Wear personal protection equipment. (See section 8.)
- Remove all sources of ignition. Remove persons to safety. Ventilate affected area. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.
- Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol.

6.2. Environmental precautions
- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

6.3. Methods and material for containment and cleaning up
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.
- Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections
- See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
- Provide adequate ventilation as well as local exhaust at critical locations.
- Wear personal protection equipment. (refer to chapter 8)

Advice on protection against fire and explosion
- Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Heating causes rise in pressure with risk of bursting. Flammable vapours can accumulate in head space of closed systems.

Further information on handling
- Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol.
- General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
- Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.
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Advice on storage compatibility

Further information on storage conditions
Recommended storage temperature: 20°C

7.3. Specific end use(s)
refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>500</td>
<td>1210</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1500</td>
<td>3620</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used.
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Protective and hygiene measures
Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Protect skin by using skin protective cream.

Eye/face protection
Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

Hand protection
Wear suitable gloves. DIN EN 374
Suitable material:
- Butyl rubber. - Thickness of glove material: 0.5 mm
- (Breakthrough time > 4 h )
- penetration time (maximum wearing period): >= ~160 min.
- In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.
- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection
Protective clothing.
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.
Respiratory protection
With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:
- exceeding exposure limit values
  Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 139).

Environmental exposure controls
Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Test method
- pH-Value: not determined

Changes in the physical state
- Melting point: not determined
- Initial boiling point and boiling range: 56 °C
- Sublimation point: not determined
- Softening point: not determined
- Pour point: not determined
- Flash point: < -20 °C
- Sustaining combustion: No data available

Flammability
- Gas: not determined

Explosive properties
In use, may form flammable/explosive vapour-air mixture.
- Lower explosion limits: 2,5 vol. %
- Upper explosion limits: 14,3 vol. %
- Ignition temperature: 370 °C

Auto-ignition temperature
- Gas: not determined

Oxidizing properties
- none

Vapour pressure:
  - (at 20 °C): 246 hPa
  - (at 50 °C): 814 hPa

Density (at 20 °C): 0,79 g/cm³

Water solubility:
- not miscible - partially miscible

Solubility in other solvents
- miscible.

Partition coefficient: not determined

Viscosity / dynamic:
  - (at 20 °C): not determined
### 9.2. Other information

- **Solid content:** not determined

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

- Heating causes rise in pressure with risk of bursting. Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture.
- Ignition hazard. Keep away from heat. Protect against direct sunlight.

#### 10.4. Conditions to avoid

- Hydrogen peroxide, bromine trifluoride, Difluordioxid, 2-methyl-1,3-butadiene, nitromethane, nitrosyl chloride (catalyst), Nitrosylperchlorat, alkali hydroxide, bromine, fluorine, sodium, strong reducing agents, nitric acid, chromic acid, chromium trioxide, chromyl chloride, ethanolamine, Potassium tert-butoxide. Oxidizing agents, strong.

#### 10.5. Incompatible materials

- Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

- **Toxicocinetics, metabolism and distribution**
  - No information available.

- **Acute toxicity**
  - Based on available data, the classification criteria are not met.
Irritation and corrosivity
Causes serious eye irritation.
Irritant effect on the eye: Irritant.
Irritant effect on the skin: Not an irritant.

Sensitising effects
Based on available data, the classification criteria are not met.
no danger of sensitization.
The statement is derived from the properties of the single components.

STOT-single exposure
May cause drowsiness or dizziness. (acetone; propan-2-one; propanone)

Severe effects after repeated or prolonged exposure
Repeated exposure may cause skin dryness or cracking.
Acetone:
Subchronic oral toxicity (90d): NOAEL = 900 mg/m3 (Rat)

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.
Acetone:
No experimental indications of mutagenicity in-vitro exist. literature information: ECHA Dossier
Developmental toxicity/teratogenicity (Rat) NOAEL = 11000 ppm; literature information: ECHA Dossier

Aspiration hazard
Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal
No information available.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone; propan-2-one; propanone</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>5540 mg/l</td>
<td>96 h</td>
<td></td>
<td>Onchorhynchus mykiss</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>8800 mg/l</td>
<td>48 h</td>
<td></td>
<td>Daphnia pulex</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td>99-97-8</td>
<td>N,N-dimethyl-p-toluidine</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>46-53 mg/l</td>
<td>96 h</td>
<td></td>
<td>Pimephales promelas</td>
<td>GESTIS</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone; propan-2-one; propanone</td>
<td>-0.24</td>
</tr>
<tr>
<td>99-97-8</td>
<td>N,N-dimethyl-p-toluidine</td>
<td>2.81</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

160305  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances
Classified as hazardous waste.

Waste disposal number of used product

160305  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110  WASTE PACKAGING; ABSORBENTS, WIPIING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances
Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone)
14.3. Transport hazard class(es): 3
### 14.4. Packing group:
- **II**

### Hazard label:
- **3**

- **Classification code:** F1
- **Limited quantity:** 1 L
- **Excepted quantity:** E2
- **Transport category:** 2
- **Tunnel restriction code:** D/E

### Inland waterways transport (ADN)
- **14.1. UN number:** UN 1993
- **14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Acetone)
- **14.3. Transport hazard class(es):** 3
- **14.4. Packing group:** **II**

- **Classification code:** F1
- **Limited quantity:** 274 601 640D
- **Excepted quantity:** E2

### Marine transport (IMDG)
- **14.1. UN number:** UN 1993
- **14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Acetone)
- **14.3. Transport hazard class(es):** 3
- **14.4. Packing group:** **II**

- **Marine pollutant:** NO
- **Special Provisions:** 274
- **Limited quantity:** 1 L
- **Excepted quantity:** E2
- **EmS:** F-E, S-E

### Air transport (ICAO)
- **14.1. UN number:** UN 1993
- **14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Acetone)
- **14.3. Transport hazard class(es):** 3
- **14.4. Packing group:** **II**

- **Hazard label:** 3
Special Provisions: A3
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**
ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**
refer to chapter 6-8

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
not applicable

SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU regulatory information
2010/75/EU (VOC): 100 % (calculated.)
2004/42/EC (VOC): 790 g/l (calculated.)
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information:
This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII: 3

**National regulatory information**
Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes
Rev. 1.00; 12.10.2015 Initial release

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
# Safety Data Sheet

according to Regulation (EC) No 1907/2006

<table>
<thead>
<tr>
<th>2P-10 Activator</th>
<th>2P-10 ACTIVATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date: November 2015</td>
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</tr>
</tbody>
</table>

- **ICAO**: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- **GHS**: Globally Harmonized System of Classification and Labelling of Chemicals
- **GefStoffV**: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
- **LOAEL**: Lowest observed adverse effect level
- **LOAEC**: Lowest observed adverse effect concentration
- **LC50**: Lethal concentration, 50 percent
- **LD50**: Lethal dose, 50 percent
- **NOAEL**: No observed adverse effect level
- **NOAEC**: No observed adverse effect level
- **NTP**: National Toxicology Program
- **N/A**: not applicable
- **OSHA**: Concerning the International Transport of Dangerous Goods by Rail
- **PNEC**: predicted no effect concentration
- **PBT**: Persistent bioaccumulative toxic
- **RID**: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- **SARA**: Superfund Amendments and Reauthorization Act
- **SVHC**: substance of very high concern
- **TRGS Technische Regeln für Gefahrstoffe**
- **TSCA**: Toxic Substances Control Act
- **VOC**: Volatile Organic Compounds
- **VwVwS**: Verwaltungsvorschrift wassergefährdender Stoffe
- **WGK**: Wassergefährdungsklasse

### Relevant H and EUH statements (number and full text)

<table>
<thead>
<tr>
<th>Hx25</th>
<th>H301</th>
<th>H311</th>
<th>H319</th>
<th>H331</th>
<th>H336</th>
<th>H373</th>
<th>H412</th>
<th>EUH066</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly flammable liquid and vapour.</td>
<td>Toxic if swallowed.</td>
<td>Toxic in contact with skin.</td>
<td>Causes serious eye irritation.</td>
<td>Toxic if inhaled.</td>
<td>May cause drowsiness or dizziness.</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
<td>Harmful to aquatic life with long lasting effects.</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
</tbody>
</table>

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*