



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 10-May-2015

Revision date 10-May-2015

Revision Number: 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

Product Description: TriCor 4F

### Other means of identification

Item#: 12U-145B  
Synonyms Not Available  
Registration number(s) 70506-68

### Recommended use of the chemical and restrictions on use

Recommended use Herbicide.  
Uses advised against Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

United Phosphorus Inc.  
630 Freedom Business Center  
Suite 402  
King of Prussia, PA 19406

#### Emergency telephone number

Company Phone Number 1-800-438-6071  
Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                      |            |
|--------------------------------------|------------|
| Acute toxicity - Oral                | Category 4 |
| Acute toxicity - Dermal              | Category 4 |
| Acute toxicity - Inhalation (Vapors) | Category 2 |

### Label elements

#### EMERGENCY OVERVIEW

**DANGER**

#### hazard statements

HARMFUL IF SWALLOWED  
Harmful in contact with skin  
Fatal if inhaled



**appearance** Off-white**Physical state** Viscous liquid**Odor** faint**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 In case of inadequate ventilation wear respiratory protection

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

**Precautionary Statements - Storage**

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

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

### 3. Composition/information on Ingredients

| Chemical name        | CAS-No     | Weight % | Trade secret |
|----------------------|------------|----------|--------------|
| Metribuzin technical | 21087-64-9 | 41       |              |

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. First aid measures

**FIRST AID MEASURES****General advice**

Immediate medical attention is not required. Show this safety data sheet to the doctor in attendance.

**Eye contact**

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact**

Wash off immediately with plenty of water for at least 15 minutes. Call poison control center or doctor for treatment advice.

**Inhalation**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

**Ingestion**

Immediate medical attention is not required. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.

**Protection of First-aiders** Use personal protective equipment.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most Important Symptoms and Effects** No information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician** No information available.

## 5. Fire-fighting measures

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Water. Foam.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Oxides of nitrogen. Oxides of carbon. Hydrogen cyanide. Sulfur oxides.

**Explosion data**

**Protective equipment and precautions for firefighters**

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with the skin and the eyes. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

**Environmental Precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling** Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Wear personal protective equipment.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep in a dry place. Keep containers tightly closed in a cool, well-ventilated place.

**incompatible materials** Strong oxidizing agents.

## 8. Exposure Controls/Personal Protection

**Exposure guidelines**

| Chemical name        | ACGIH TLV                | OSHA PEL                           |
|----------------------|--------------------------|------------------------------------|
| Metribuzin technical | TWA: 5 mg/m <sup>3</sup> | (vacated) TWA: 5 mg/m <sup>3</sup> |

**Engineering controls** Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Personal protective equipment**

**Eye/Face Protection**

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

**Skin protection**

Wear protective gloves/clothing. Socks and footwear.

**Respiratory protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

|                       |                          |             |       |
|-----------------------|--------------------------|-------------|-------|
| <b>Physical state</b> | Viscous liquid           | <b>Odor</b> | faint |
| <b>appearance</b>     | Off-white                |             |       |
| <b>color</b>          | No information available |             |       |

| <u>Property</u>                               | <u>VALUES</u>               | <u>Remarks/ • Method</u> |
|---|-----------------------------|--------------------------|
| <b>pH</b>                                     | 7.37                        |                          |
| <b>Melting point/freezing point</b>           | 8.37 °C / 47 °F             |                          |
| <b>Boiling Point/Range</b>                    | No information available    |                          |
| <b>Flash Point</b>                            | > 100 °C / > 212 °F         |                          |
| <b>Evaporation Rate</b>                       | No information available    |                          |
| <b>flammability (solid, gas)</b>              | No information available    |                          |
| <b>Flammability limit in air</b>              |                             |                          |
| <b>Upper Flammability Limit</b>               | No information available    |                          |
| <b>Lower Flammability Limit</b>               | No information available    |                          |
| <b>vapor pressure</b>                         | No information available    |                          |
| <b>Vapor Density</b>                          | No information available    |                          |
| <b>Specific gravity</b>                       | 1.16 g/cm <sup>3</sup> 20 c |                          |
| <b>Water solubility</b>                       | No information available    |                          |
| <b>Solubility in Other Solvents</b>           | No information available    |                          |
| <b>Partition coefficient: n-octanol/water</b> | No information available    |                          |
| <b>Autoignition temperature</b>               | No information available    |                          |
| <b>decomposition temperature</b>              | No information available    |                          |
| <b>Viscosity, kinematic</b>                   | No information available    |                          |
| <b>Dynamic viscosity</b>                      | No information available    |                          |
| <b>Explosive properties</b>                   | No information available    |                          |
| <b>Oxidizing properties</b>                   | No information available    |                          |

**OTHER INFORMATION**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>molecular weight</b> | No information available |
| <b>VOC Content</b>      | No information available |

**density** No information available  
**Bulk density** No information available

## 10. Stability and Reactivity

### Reactivity

no data available

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

**Hazardous polymerization** Hazardous polymerisation does not occur.

### Conditions to avoid

Sustained temperatures above 100 F.

### incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon oxides.

## 11. Toxicological Information

### Information on Likely Routes of Exposure

#### Product information

Metri 4F:  
 Acute oral LD50 (rat) = 1871 mg/kg  
 Acute dermal LD50 (rat) = >2,000 mg/kg  
 Acute inhalation LC50 (rat) = >1.881 mg/L 4 hr  
 Skin irritation (rabbit) = Not an irritant  
 Eye irritation (rabbit) = Not an irritant  
 Skin sensitization (guinea pig) = Not a sensitizer

**Inhalation** Toxic by inhalation.

**Eye contact** May cause irritation.

**Skin contact** May cause irritation. May be harmful if absorbed through the skin.

**Ingestion** HARMFUL IF SWALLOWED.

| Chemical name                      | LD50 Oral | LD50 Dermal | LC50 Inhalation                     |
|------------------------------------|-----------|-------------|-------------------------------------|
| Metribuzin technical<br>21087-64-9 | -         | -           | > 860 mg/m <sup>3</sup> ( Rat ) 4 h |

### Information on Toxicological Effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**sensitization** No information available.  
**Mutagenic effects** No information available.  
**Carcinogenicity** The information below indicates whether any agency has listed any ingredient as a carcinogen.  
**Reproductive effects** Not Available.  
**STOT - Single Exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target organ effects** liver, Central Nervous System (CNS), Thyroid.  
**Aspiration hazard** No information available.

### Numerical Measures of Toxicity - Product information

LD50 Oral 1871 mg/kg (rat)  
LD50 Dermal > 2000 mg/kg (rat)  
LC50 Inhalation: LC50/inhalation/4h/rat = > 1.881 mg/l (rat)

## 12. Ecological Information

### ecotoxicity

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or arable land. Do not apply when weather conditions favor drift from treated areas.

### Persistence/Degradability

No information available.

### Bioaccumulation/ Accumulation

Does not bioaccumulate.

### Other Adverse Effects

No information available

## 13. Disposal Considerations

### Waste Treatment Methods

#### **Waste Disposal Method**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **Contaminated packaging**

Refer to product label.

## 14. Transport Information

DOT NOT REGULATED

TDG NOT REGULATED

IATA NOT REGULATED

IMDG/IMO NOT REGULATED

## 15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**signal word** CAUTION

**Ventilation Control**

PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

Harmful if swallowed or absorbed through the skin. Keep out of Reach of Children.

**International Inventories**

|                           |                 |
|---------------------------|-----------------|
| <b>USINV</b>              | Not determined  |
| <b>DSL/NDSL</b>           | Not determined  |
| <b>EINECS/<br/>ELINCS</b> | Does not comply |
| <b>ENCS</b>               | Does not comply |
| <b>China</b>              | Complies        |
| <b>KECL</b>               | Does not comply |
| <b>PICCS</b>              | Does not comply |
| <b>AICS</b>               | Does not comply |
| <b>TSCA</b>               | Does not comply |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

| Chemical name                     | SARA 313 - Threshold Values |
|-----------------------------------|-----------------------------|
| Metribuzin technical - 21087-64-9 | 1.0                         |

**SARA 311/312 Hazardous**

**Categorization**

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | yes |
| <b>Chronic health hazard</b>             | NO  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | yes |

**CERCLA**

**SARA Product RQ** 0

**RCRA**

**Pesticide Information**

**State Regulations**

**State Right-to-Know**

| Chemical name        | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------|---------------|------------|--------------|----------|--------------|
| Metribuzin technical | X             | X          | X            |          |              |

**International regulations**

**U.S. EPA Label information**

**EPA Pesticide registration number** 70506-68

**16. Other Information**

**NFPA**                      **HEALTH 1**                      **flammability 1**                      **Instability 0**                      **Physical hazard -**

**Preparation Date**                      10-May-2015

**Revision date**                      10-May-2015

**Revision Summary**

Update to GHS format

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**End of MSDS**