# SAFETY DATA SHEET

## TEMPRID® SC INSECTICIDE


Version 3.0 / USA
102000019505
Revision Date: 01/11/2017
Print Date: 01/12/2017

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

| | |
|---|---|
| **Trade name** | TEMPRID® SC INSECTICIDE |
| **Product code (UVP)** | 79521359 |
| **SDS Number** | 102000019505 |
| **EPA Registration No.** | 432-1483 |

**Relevant identified uses of the substance or mixture and uses advised against**

| | |
|---|---|
| **Use** | Insecticide |
| **Restrictions on use** | See product label for restrictions. |

**Information on supplier**

| | |
|---|---|
| **Supplier** | Bayer Environmental Science<br>2 T.W. Alexander Drive<br>Research Triangle PK, NC 27709<br>United States |
| **Responsible Department** | Email: SDSINFO.BCS-NA@bayer.com |

**Emergency telephone no.**

| | |
|---|---|
| **Emergency Telephone Number (24hr/ 7 days)** | 1-800-334-7577 |
| **Product Information Telephone Number** | 1-800-331-2867 |

## SECTION 2: HAZARDS IDENTIFICATION

**Classification in accordance with regulation HCS 29CFR §1910.1200**
Acute toxicity(Oral, Inhalation): Category 4

**Labelling in accordance with regulation HCS 29CFR §1910.1200**

**Signal word**: Warning

**Hazard statements**
Harmful if swallowed or if inhaled

**Precautionary statements**
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing mist and spray.

Use only outdoors or in a well-ventilated area.
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell.
Dispose of contents/container in accordance with local regulation.

**Hazards Not Otherwise Classified (HNOC)**
No physical hazards not otherwise classified.
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name | CAS-No. | Concentration % by weight |
|---|---|---|
| Imidacloprid | 138261-41-3 | 21.0 |
| Beta-Cyfluthrin | 68359-37-5 | 10.5 |
| Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt | 68425-94-5 | 2.4 |

## SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

**General advice** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Inhalation** Move 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.

**Skin contact** Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

**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. Call a physician or poison control center immediately.

**Ingestion** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** To date no symptoms are known.

**Indication of any immediate medical attention and special treatment needed**

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|---|---|
| **Treatment** | Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote. |

## SECTION 5: FIREFIGHTING MEASURES

**Extinguishing media**

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|---|---|
| **Suitable** | Water spray, Foam, Carbon dioxide (CO2), Dry chemical |
| **Unsuitable** | None known. |
| **Special hazards arising from the substance or mixture** | Dangerous gases are evolved in the event of a fire. |

**Advice for firefighters**

| | |
|---|---|
| **Special protective equipment for firefighters** | Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. |
| **Further information** | Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. |
| **Flash point** | > 93.3 °C |
| **Auto-ignition temperature** | 360 °C / 680 °F |
| **Lower explosion limit** | No data available |
| **Upper explosion limit** | No data available |
| **Explosivity** | Not explosive<br>92/69/EEC, A.14 / OECD 113 |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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|---|---|
| **Precautions** | Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. |

**Methods and materials for containment and cleaning up**

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|---|---|
| **Methods for cleaning up** | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. |
| **Additional advice** | Use personal protective equipment. If material is accidentally spilled, do not allow to enter soil, waterways or waste water canal. |

**Reference to other sections** Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

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

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

| Components | CAS-No. | Control parameters | Update | Basis |
|---|---|---|---|---|
| Imidacloprid | 138261-41-3 | 50ug/m3 (ST ESL) | 07 2011 | TX ESL |
| Imidacloprid | 138261-41-3 | 5ug/m3 (AN ESL) | 07 2011 | TX ESL |
| Imidacloprid | 138261-41-3 | 0.7 mg/m3 (TWA) | | OES BCS* |
| Beta-Cyfluthrin | 68359-37-5 | 5ug/m3 (AN ESL) | 03 2014 | TX ESL |
| Beta-Cyfluthrin | 68359-37-5 | 50ug/m3 (ST ESL) | 03 2014 | TX ESL |
| Beta-Cyfluthrin | 68359-37-5 | 0.01 mg/m3 (TWA) | | OES BCS* |
| Glycerine (Respirable fraction.) | 56-81-5 | 5 mg/m3 (PEL) | 02 2006 | OSHA Z1 |
| Glycerine (Total dust.) | 56-81-5 | 15 mg/m3 (PEL) | 02 2006 | OSHA Z1 |

| | | | | |
|---|---|---|---|---|
| Glycerine<br><br>(Respirable fraction and dust or fume.) | 56-81-5 | 5 mg/m3<br>(TWA) | 06 2008 | TN OEL |
| Glycerine<br><br>(Total dust and mist.) | 56-81-5 | 10 mg/m3<br>(TWA) | 06 2008 | TN OEL |
| Glycerine | 56-81-5 | 5ug/m3<br>(AN ESL) | 03 2014 | TX ESL |
| Glycerine | 56-81-5 | 1000ug/m3<br>(ST ESL) | 03 2014 | TX ESL |
| Glycerine | 56-81-5 | 50ug/m3<br>(ST ESL) | 03 2014 | TX ESL |
| Glycerine | 56-81-5 | 100ug/m3<br>(AN ESL) | 03 2014 | TX ESL |

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

**Exposure controls**

**Personal protective equipment**
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection** Chemical resistant nitrile rubber gloves

**Eye protection** Safety glasses with side-shields

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** white to beige

**Physical State** suspension

**Odor** characteristic

**Odour Threshold** No data available

**pH** ca. 6.9 at 10 %

**Vapor Pressure** No data available

**Vapor Density (Air = 1)** No data available

**Density** 1.16 g/cm³ at 20 °C

| | |
|---|---|
| **Evaporation rate** | No data available |
| **Boiling Point** | No data available |
| **Melting / Freezing Point** | No data available |
| **Water solubility** | dispersible |
| **Minimum Ignition Energy** | Not applicable |
| **Decomposition temperature** | Not applicable |
| **Partition coefficient: n-octanol/water** | No data available |
| **Viscosity** | 500 - 1,100 mPa.s |
| **Flash point** | > 93.3 °C |
| **Auto-ignition temperature** | 360 °C / 680 °F |
| **Lower explosion limit** | No data available |
| **Upper explosion limit** | No data available |
| **Explosivity** | Not explosive<br>92/69/EEC, A.14 / OECD 113 |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | |
| **Thermal decomposition** | Not applicable |
| **Chemical stability** | Stable under normal conditions. |
| **Possibility of hazardous reactions** | No dangerous reaction known under conditions of normal use. |
| **Conditions to avoid** | Extremes of temperature and direct sunlight. |
| **Incompatible materials** | No data available |
| **Hazardous decomposition products** | No decomposition products expected under normal conditions of use. |

## SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|---|---|
| **Exposure routes** | Skin Absorption, Eye contact, Ingestion |
| **Immediate Effects** | |
| **Eye** | Moderate eye irritation. |
| **Skin** | Harmful if absorbed through skin. May cause slight irritation. |

| | |
|---|---|
| **Ingestion** | Harmful if swallowed. |

**Information on toxicological effects**

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|---|---|
| **Acute oral toxicity** | LD50 (female Rat) > 1,044 mg/kg |
| **Acute inhalation toxicity** | LC50 (Rat) > 2.03 mg/l<br>Exposure time: 4 h<br>Determined in the form of liquid aerosol.<br>highest concentration tested<br>No deaths |
| **Acute dermal toxicity** | LD50 (Rat) > 2,000 mg/kg |
| **Skin irritation** | slight irritation (Rabbit) |
| **Eye irritation** | Mild eye irritation. (Rabbit) |
| **Sensitisation** | Non-sensitizing. (Guinea pig) |

**Assessment STOT Specific target organ toxicity – repeated exposure**

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.
The toxic effects of Beta-Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

**Assessment mutagenicity**

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Beta-Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.
Beta-Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.
Beta-Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Beta-Cyfluthrin is related to parental toxicity.

**Assessment developmental toxicity**

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.
Beta-Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Beta-Cyfluthrin are related to maternal toxicity.

**Further information**

Only acute toxicity studies have been performed on the formulated product.
The non-acute information pertains to the active ingredient(s).

## SECTION 12: ECOLOGICAL INFORMATION

| | |
|---|---|
| **Toxicity to fish** | LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient imidacloprid.<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)) 0.000068 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient beta-cyfluthrin. |
| **Toxicity to aquatic invertebrates** | EC50 (Daphnia magna (Water flea)) 85 mg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient imidacloprid.<br><br>LC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l<br>Exposure time: 24 h<br>The value mentioned relates to the active ingredient imidacloprid.<br><br>EC50 (Daphnia magna (Water flea)) 0.00029 mg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient beta-cyfluthrin. |
| **Toxicity to aquatic plants** | EC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l<br>Growth rate; Exposure time: 72 h<br>The value mentioned relates to the active ingredient imidacloprid.<br><br>IC50 (Desmodesmus subspicatus (green algae)) > 0.01 mg/l<br>Growth rate; Exposure time: 72 h<br>The value mentioned relates to the active ingredient beta-cyfluthrin.<br>No acute toxicity was observed at its limit of water solubility. |
| **Biodegradability** | Imidacloprid:<br>Not rapidly biodegradable<br>Beta-Cyfluthrin:<br>Not rapidly biodegradable |
| **Koc** | Imidacloprid: Koc: 225<br>Beta-Cyfluthrin: Koc: 508 - 3179 |
| **Bioaccumulation** | Imidacloprid:<br>Does not bioaccumulate.<br>Beta-Cyfluthrin: Bioconcentration factor (BCF) 506 |

| | |
|---|---|
| | Does not bioaccumulate. |
| **Mobility in soil** | Imidacloprid: Moderately mobile in soils<br>Beta-Cyfluthrin: Immobile in soil |
| **Environmental precautions** | Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.<br>Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.<br>Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.<br>Apply this product as specified on the label. |

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

| | |
|---|---|
| **Product** | Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.<br>Never place unused product down any indoor or outdoor drain.<br>Follow advice on product label and/or leaflet. |
| **Contaminated packaging** | Do not re-use empty containers.<br>Triple rinse containers.<br>Add washings to sprayer at time of filling.<br>Puncture container to avoid re-use.<br>Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.<br>If burned, stay out of smoke.<br>Follow advice on product label and/or leaflet. |
| **RCRA Information** | Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply. |

## SECTION 14: TRANSPORT INFORMATION

| | |
|---|---|
| **49CFR** | Not dangerous goods / not hazardous material |
| **IMDG** | |
| UN number | **3082** |
| Class | 9 |
| Packaging group | III |
| Marine pollutant | YES |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION) |

**IATA**

| | |
|---|---|
| UN number | **3082** |
| Class | 9 |
| Packaging group | III |
| Environm. Hazardous Mark | YES |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION ) |

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

## SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 432-1483
**US Federal Regulations**
**TSCA list**

| | |
|---|---|
| Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt | 68425-94-5 |

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**
None.
**SARA Title III - Section 302 - Notification and Information**
None.
**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

| | |
|---|---|
| Beta-Cyfluthrin | 68359-37-5 |

**US States Regulatory Reporting**
**CA Prop65**
This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

| | | |
|---|---|---|
| Beta-Cyfluthrin | 68359-37-5 | NJ, RI |

**Canadian Regulations**
**Canadian Domestic Substance List**
None.

**Environmental**
**CERCLA**
None.
**Clean Water Section 307 Priority Pollutants**
None.
**Safe Drinking Water Act Maximum Contaminant Levels**
None.

**EPA/FIFRA 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 required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:**
Harmful if absorbed through skin.
Harmful if swallowed.
Moderate eye irritation.
Avoid contact with skin, eyes and clothing.
Wash thoroughly with soap and water after handling.

## SECTION 16: OTHER INFORMATION

**Abbreviations and acronyms**

| | |
|---|---|
| 49CFR | Code of Federal Regulations, Title 49 |
| ACGIH | US. ACGIH Threshold Limit Values |
| ATE | Acute toxicity estimate |
| CAS-Nr. | Chemical Abstracts Service number |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| N.O.S. | Not otherwise specified |
| NTP | US. National Toxicology Program (NTP) Report on Carcinogens |
| OECD | Organization for Economic Co-operation and Development |
| TDG | Transportation of Dangerous Goods |
| TWA | Time weighted average |
| UN | United Nations |
| WHO | World health organisation |

**NFPA 704 (National Fire Protection Association):**

| | | | |
|---|---|---|---|
| Health - 1 | Flammability - 1 | Instability - 0 | Others - none |

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

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

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Reviewed and updated for general editorial purposes. The following sections have been revised: Section 2: Hazards Identification.

**Revision Date:** 01/11/2017

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