

SAFETY DATA SHEET



Tempo® SC Ultra Pest Control Concentrate

Version 1.0 Revision Date: 06/23/2020 SDS Number: 122000007110 Date of last issue: -
Date of first issue: 23.06.2020

SECTION 1. IDENTIFICATION

Product information

Product Name : Tempo® SC Ultra Pest Control Concentrate
Synonyms : Tempo® SC Ultra Premise Spray
SDS Number : 122000007110

Use : Pesticide

Company

Elanco US Inc.
2500 Innovation Way
Greenfield, IN 46140
USA
+1-877-Elanco1(+1-877-3526261)
elanco_sds@elanco.com


In case of emergency: CHEMTREC International: +1 703-527-3887 (24 hours)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4

GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H302 Harmful if swallowed.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P330 Rinse mouth.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
β-Cyfluthrin	68359-37-5	11,8
PPG-26 Buteth 26	9038-95-3	2,85
Bronopol (INN)	52-51-7	0,1

SECTION 4. FIRST AID MEASURES

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Remove to fresh air.
Call a physician immediately.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.
If skin reactions occur, contact a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : In case of accidental ingestion, contact your regional poison center or physician immediately.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Fire may cause evolution of:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
No special precautions required.

Methods and materials for containment and cleaning up : Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : No special protective measures against fire required.

Advice on safe handling : Avoid formation of aerosol.
Use with local exhaust ventilation.
Avoid contact with skin, eyes and clothing.

Recommended storage temperature : 0 - 100 °F / -18 - 38 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m ³	US WEEL
		TWA	10 mg/m ³	US WEEL
Silicon dioxide (amorphous)	112945-52-5	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
		TWA	6 mg/m ³ (Silica)	NIOSH REL
		TWA	6 mg/m ³ (Silica)	NIOSH REL

Personal protective equipment

Respiratory protection : Recommended Filter type:
Organic vapor with prefilter

None required for consumer use of this product.

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Hand protection
Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

Eye protection : Safety glasses
None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.
Please consult label for end-user requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid, suspension

Colour : white to beige

Odour : characteristic

pH : 3,5 - 5,5
Concentration: 10 %

Melting point / range : 154 °F / 68 °C

Flash point : > 200,1 °F / > 93,4 °C

Density : 1,06 g/cm³ (68 °F / 20 °C)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : 1.060 mPa.s (73 °F / 23 °C)

Explosive properties : No statements available.

Oxidizing properties : No data available

Impact sensitivity : No data available

Minimum ignition energy : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous reac- : No data available

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tions

Conditions to avoid	:	No data available
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon monoxide (CO) Carbon dioxide (CO ₂)

SECTION 11. TOXICOLOGICAL INFORMATION
Acute toxicity
Product:

Acute oral toxicity	:	LD50 (Rat, male): 960 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	:	(Rat, male and female): > 1,72 mg/l Exposure time: 4 h Test atmosphere: dust/mist/aerosol Remarks: (highest technical producible concentration)
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2.000 mg/kg

Components:
 β -Cyfluthrin:

Acute oral toxicity	:	Assessment: The component/mixture is highly toxic after single ingestion.
Acute inhalation toxicity	:	LC50 (Rat): 0,08 mg/l Exposure time: 4 h Test atmosphere: dust/mist/aerosol LC50 (Rat): 0,53 mg/l Exposure time: 4 h Test atmosphere: dust/mist/aerosol

Bronopol (INN):

Acute oral toxicity	:	LD50 (Rat, male): 273 mg/kg Method: OECD 401 GLP: yes LD50 (Rat, female): 354 mg/kg Method: OECD 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat): 5 mg/l Exposure time: 6 h LC50 (Rat): \geq 0,566 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist/aerosol

Acute dermal toxicity : LD50 (Rat): 1.600 mg/kg
LD50 (Mouse): 4.750 mg/kg

Skin corrosion/irritation**Product:**

Species : Rabbit
Result : No skin irritation

Components:**β-Cyfluthrin:**

Species : Rabbit
Result : slight irritation

PPG-26 Buteth 26:

Species : Rabbit
Result : Mild skin irritation

Bronopol (INN):

Species : Rabbit
Exposure time : 4 h
Method : OECD 404
Result : Severe skin irritation
GLP : yes

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : Mild eye irritation

Components:**β-Cyfluthrin:**

Species : Rabbit
Result : slight irritation

Bronopol (INN):

Result : Irritating to eyes.

Respiratory or skin sensitisation**Product:**

Species : Guinea pig
Result : Does not cause skin sensitisation.

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Components:

β-Cyfluthrin:

Species : Guinea pig
Result : Does not cause skin sensitisation.

Bronopol (INN):

Test Type : Skin sensitisation
Species : Guinea pig
Method : OECD 406
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Bronopol (INN):

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: no
Method: OECD 473
Result: positive

Test Type: In vitro gene mutation study in mammalian cells
Test system: Hamster V79-cells
Metabolic activation: with and without metabolic activation
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Exposure time: Single dose
Method: OECD 474
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vivo
Species: Mouse (male and female)
Application Route: Oral
Exposure time: Multiple dose
Method: Dominant lethale test
Result: negative
GLP: no

Test Type: DNA damage and/or repair

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Species: Rat (male)
 Cell type: Liver cells
 Application Route: Oral
 Exposure time: Single dose
 Method: OECD 486
 Result: negative
 GLP: yes

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Components:****Bronopol (INN):**

Effects on fertility : Species: Rat
 Application Route: Oral
 General Toxicity - Parent: NOAEL: > 40 mg/kg
 General Toxicity F1: NOAEL: > 40 mg/kg

Test Type: Two-generation study
 Species: Rat
 Application Route: Oral
 General Toxicity - Parent: NOAEL: 70 mg/kg
 General Toxicity F1: NOAEL: 200 mg/kg
 General Toxicity F2: NOAEL: 200 mg/kg

STOT - single exposure**Components:****Bronopol (INN):**

Assessment : May cause respiratory irritation.

Repeated dose toxicity**Components:****Bronopol (INN):**

Species : Dog, male and female
 NOAEL : 8 mg/kg
 LOAEL : 20 mg/kg
 Application Route : Oral
 Exposure time : 3 month
 Number of exposures : Once daily

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Species	:	Rabbit, male and female
NOAEL	:	ca. 0,2 %
LOAEL	:	ca.0,5 %
Application Route	:	Dermal
Exposure time	:	21 days
Number of exposures	:	Once daily

SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity
Components:
β-Cyfluthrin:
Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

PPG-26 Buteth 26:
Ecotoxicology Assessment

Acute aquatic toxicity	:	slightly hazardous to water
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Bronopol (INN):
Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
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Persistence and degradability
Components:
Bronopol (INN):

Biodegradability	:	aerobic
		Concentration: 0,1 mg/l
		Result: rapidly biodegradable
		Biodegradation: 70 - 80 %
		Exposure time: 28 d
		Method: OECD 301 B
		GLP: yes

Bioaccumulative potential
Components:
β-Cyfluthrin:

Bioaccumulation	:	Remarks: Bioaccumulative potential
Partition coefficient: n-	:	Pow: 6,18 (72 °F / 22 °C)

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octanol/water

Bronopol (INN):

Partition coefficient: n-octanol/water : log Pow: 0,22 (75 °F / 24 °C)
pH: 7
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: yes

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not allow to enter surface waters or groundwater.

Components:

Bronopol (INN):

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	*
Sodium hydroxide	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

β-Cyfluthrin 68359-37-5 11,8 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermedi-ate or Final VOC's (40 CFR 60.489):

Propane-1,2-diol	57-55-6	15,19 %
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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Ta-ble 116.4A:

Sodium hydroxide	1310-73-2	0,2 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sodium hydroxide	1310-73-2	0,2 %
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Propane-1,2-diol	57-55-6
Sodium hydroxide	1310-73-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

New York City Hazardous Substances

Sodium hydroxide	1310-73-2
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California Permissible Exposure Limits for Chemical Contaminants

Silicon dioxide (amorphous)	112945-52-5
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International Regulations

Montreal Protocol (Ozone Depleting Substances) : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

The components of this product are reported in the following inventories:

TSCA : Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

Health - 1 Flammability - 1 Instability - 1 Others -

HMIS® IV:

Health - 2 Flammability - 1 Instability - 0 Others -

Full text of other abbreviations

NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-3 / TWA : 8-hour time weighted average
US WEEL / TWA : 8-hr TWA

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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