

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

1/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product identifier**

Trade name SEPRESTO 75 WS
Product code (UVP) 79127731, 84110302
SDS Number 102000017127
EPA Registration No. 264-1081

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

Use Insecticide, Seed treatment
Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer CropScience
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
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 1-866-99BAYER (1-866-992-2937)

SECTION 2: HAZARDS IDENTIFICATION**Classification in accordance with regulation HCS 29CFR §1910.1200**

Acute toxicity(Oral): Category 4

**Signal word:** Warning**Hazard statements**

Harmful if swallowed.

Precautionary statements

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

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

Rinse mouth.

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

2/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Clothianidin	210880-92-5	56.25
Imidacloprid	138261-41-3	18.75
Sodium diisopropyl naphthalene sulphonate	1322-93-6	3.2

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

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

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

3/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

SECTION 5: FIREFIGHTING MEASURES**Extinguishing media****Suitable** Water spray, Dry chemical, Carbon dioxide (CO₂), Foam**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 fire-fighters** 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** not applicable**Autoignition temperature** no data available**Lower explosion limit** not applicable**Upper explosion limit** not applicable**Explosivity** Not explosive
92/69/EEC, A.14 / OECD 113**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.**Methods and materials for containment and cleaning up****Methods for cleaning up** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.**Additional advice** Use personal protective equipment. 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**

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

4/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

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
Clothianidin	210880-92-5	2.8 mg/m3 (TWA)		OES BCS*
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*

*OES BCS: Internal Bayer CropScience "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 gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

Eye protection Safety glasses with side-shields

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

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

5/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

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	grey
Physical State	powder
Odor	characteristic
Odour Threshold	no data available
pH	7.0 - 9.0 at 1 % (23 °C) (deionized water)
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Bulk density	ca. 0.45 g/ml (bulk density tapped)
Evaporation rate	not applicable
Boiling Point	not applicable
Melting / Freezing Point	not applicable
Minimum Ignition Energy	10 - 30 mJ
Decomposition temperature	> 190 °C , Heating rate: 5 K/min , Decomposition energy: 1,083 KJ/kg
Partition coefficient: n-octanol/water	not applicable
Viscosity	not applicable
Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

6/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

SECTION 10: STABILITY AND REACTIVITY**Reactivity****Thermal decomposition** > 190 °C, Heating rate: 5 K/min, Decomposition energy: 1,083 KJ/kg**Chemical stability** Stable under normal conditions.**Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.**Conditions to avoid** no data available**Incompatible materials** no data available**Hazardous decomposition products** No decomposition products expected under normal conditions of use.**SECTION 11: TOXICOLOGICAL INFORMATION****Exposure routes** Ingestion, Skin Absorption, Eye contact, Inhalation**Immediate Effects****Skin** Harmful if absorbed through skin.**Ingestion** Harmful if swallowed.**Information on toxicological effects****Acute oral toxicity** LD50 (female rat) 1,000 mg/kg**Acute inhalation toxicity** LC50 (male/female combined rat) > 6.131 mg/l
Exposure time: 4 h
Determined in the form of a respirable aerosol.
Highest attainable concentration.**Acute dermal toxicity** LD50 (male/female combined rat) > 2,000 mg/kg**Skin irritation** No skin irritation (rabbit)**Eye irritation** No eye irritation (rabbit)**Sensitisation** Non-sensitizing. (mouse)
OECD Test Guideline 429, local lymph node assay (LLNA)
Non-sensitizing. (guinea pig)
OECD Test Guideline 406, Buehler test**Assessment repeated dose toxicity**Clothianidin did not cause specific target organ toxicity in experimental animal studies.
Imidacloprid did not cause specific target organ toxicity in experimental animal studies.**Assessment mutagenicity**

**SEPRESTO 75 WS**

Version 2.0 / USA
102000017127

7/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

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

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

Assessment carcinogenicity

Clothianidin was not carcinogenic in lifetime feeding studies in rats and mice.

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

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Clothianidin 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 Clothianidin is related to parental toxicity.

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.

Assessment developmental toxicity

Clothianidin did not cause developmental toxicity in rats.

Clothianidin caused developmental toxicity in rabbits only at dose levels toxic to the dams. The developmental effects seen with Clothianidin are related to maternal toxicity.

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid 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

Exposure time: 96 h

The value mentioned relates to the active ingredient imidacloprid.

LC50 (Oncorhynchus mykiss (rainbow trout)) > 104.2 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient clothianidin.

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

8/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

Toxicity to aquatic invertebrates

EC50 (*Daphnia magna* (Water flea)) 85 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient imidacloprid.

LC50 (*Chironomus riparius* (non-biting midge)) 0.0552 mg/l
Exposure time: 24 h
The value mentioned relates to the active ingredient imidacloprid.

EC50 (*Daphnia magna* (Water flea)) > 40 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient clothianidin.

EC50 (*Chironomus riparius* (non-biting midge)) 0.029 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient clothianidin.

Toxicity to aquatic plants

EC50 (*Desmodesmus subspicatus* (green algae)) > 10 mg/l
Growth rate; Exposure time: 72 h
The value mentioned relates to the active ingredient imidacloprid.

IC50 (*Raphidocelis subcapitata* (freshwater green alga)) > 120 mg/l
Growth rate; Exposure time: 72 h
The value mentioned relates to the active ingredient clothianidin.

EC50 (*Lemna gibba* (gibbous duckweed)) > 121 mg/l
Exposure time: 14 d
The value mentioned relates to the active ingredient clothianidin.

Biodegradability

Clothianidin:
not rapidly biodegradable
Imidacloprid:
not rapidly biodegradable

Koc

Clothianidin: Koc: 84 - 345
Imidacloprid: Koc: 225

Bioaccumulation

Clothianidin:
Does not bioaccumulate.
Imidacloprid:
Does not bioaccumulate.

Mobility in soil

Clothianidin: Moderately mobile in soils
Imidacloprid: Moderately mobile in soils

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.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
Apply this product as specified on the label.

**SEPRESTO 75 WS**Version 2.0 / USA
102000017127

9/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

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.
Contaminated packaging	Do not re-use empty containers. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. 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	3077
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CLOTHIANIDIN MIXTURE)
IATA	
UN number	3077
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CLOTHIANIDIN MIXTURE)

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. 264-1081



SEPRESTO 75 WS

Version 2.0 / USA
102000017127

10/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

US Federal Regulations

TSCA list

Sodium diisopropylnaphthalene 1322-93-6
sulphonate

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

None.

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

None.

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 swallowed or absorbed through skin.
Moderate eye irritation.
Avoid contact with skin, eyes and clothing.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms



SEPRESTO 75 WS

Version 2.0 / USA
102000017127

11/11

Revision Date: 11/16/2015

Print Date: 11/16/2015

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
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: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 11/16/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.