

SONATA® 1/10

 Version 1.2 / USA
 Revision Date: 03/15/2024

 102000028244
 Print Date: 03/21/2024

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

**Product identifier** 

Trade name SONATA® Product code (UVP) 80900007

**SDS Number** 102000028244

**EPA Registration No.** 264-1153

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

**Use** Fungicide

**Restrictions on use**See product label for restrictions.

Information on supplier

Supplier Bayer CropScience LP

800 North Lindbergh Blvd. St. Louis, MO 63167

USA

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

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### **Hazards Not Otherwise Classified (HNOC)**

Micro-organisms may have the potential to provoke sensitising reactions.

No physical hazards not otherwise classified.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**



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**Hazardous Component Name** 

CAS-No.

Concentration % by weight

1.38

**BACILLUS PUMILUS STRAIN QST2808** 

Bacillus pumilus QST2808, >= 1.0E+09 CFU/g

#### **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.

#### **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

**Unsuitable** High volume water jet



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Special hazards arising from the substance or

mixture

No particular hazards known.

Advice for firefighters

Special protective equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and

full protective clothing.

**Further information** Use appropriate extinguishing media for material that is supplying fuel.

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.

Specific hazards from the substance or mixture which can increase the fire

Flash point

Auto-ignition temperature

Lower explosion limit

Upper explosion limit

No data available

## **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** 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. Clean with disinfectants.

Additional advice Use personal protective equipment. If the product 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.



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#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

and open container in a manner as to prevent spillage.

Hygiene measures Remove Personal Protective Equipment (PPE) immediately after

handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. 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. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

No known occupational limit values.

## **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 Waterproof 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.



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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Form suspension

Colour light brown

Odour sweet, earthy

Odour Threshold No data available

**pH** 5.2 - 5.4 (100 %) (23 °C)

Melting point/rangeNo data availableBoiling point/boiling range>= 100 °C / 212 °FFlash pointNo data availableFlammabilityNo data availableAuto-ignition temperatureNo data availableThermal decompositionNo data available

Minimum ignition energy Not applicable
Self-accelarating No data available

decomposition temperature

(SADT)

Upper explosion limitNo data availableLower explosion limitNo data availableVapour pressureNo data availableEvaporation rateNo data available

Relative vapour density

Relative density

No data available

No data available

**Density** ca. 1.030 g/cm<sup>3</sup> (20 °C)

Water solubility dispersible

**Partition coefficient: n- octanol/water**Bacillus Pumilus:

No data available

Viscosity, dynamic 5 - 120 mPa.s (21 °C)
Viscosity, kinematic No data available
Oxidizing properties No data available
Explosivity Not applicable

**Other information** Further safety related physical-chemical data are not known.



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## **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

Conditions to avoid Protect from sunlight. Do not expose to temperatures exceeding 40 °C/

104 °F.

Incompatible materials No incompatible materials known.

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Eye contact, Skin contact, Inhalation, Ingestion

**Immediate Effects** 

Eve Not expected to produce significant adverse effects when

recommended use instructions are followed.

Skin May cause sensitisation by skin contact.

Ingestion Not expected to produce significant adverse effects when

recommended use instructions are followed.

Inhalation Harmful if inhaled.

Information on toxicological effects

**Acute oral toxicity** LD50 (Rat) > 5,000 mg/kg

Acute inhalation toxicity LC50 (Rat) 2.36 mg/l

Determined in the form of liquid aerosol.

Highest attainable concentration.

No deaths

Acute dermal toxicity LD50 (Rabbit) > 5,050 mg/kg

Skin corrosion/irritation No skin irritation (Rabbit) Serious eye damage/eye No eye irritation (Rabbit)

irritation

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity - single exposure



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Bacillus Pumilus: This information is not available.

Assessment STOT Specific target organ toxicity – repeated exposure

Bacillus Pumilus: This information is not available.

Assessment mutagenicity

Bacillus Pumilus: Test not required for microorganisms.

Assessment carcinogenicity

Bacillus Pumilus: Test not required for microorganisms.

**ACGIH** 

None.

**NTP** 

None.

**IARC** 

None.

Assessment toxicity to reproduction

Bacillus Pumilus: Test not required for microorganisms.

Assessment developmental toxicity

Bacillus Pumilus: Test not required for microorganisms.

Aspiration hazard

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

**Further information** 

Acute toxicity studies have been bridged from a similar formulation(s).

No further toxicological information is available.

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 2.430 mg/l

Exposure time: 30 d

The ecological data given are those of the active ingredient.

**Toxicity to aquatic** EC50 (Daphnia magna (Water flea)) 58 mg/l

**invertebrates** Exposure time: 21 d

The ecological data given are those of the active ingredient.

**Toxicity to aquatic plants** EC50 (algae) > 100 mg/l

Exposure time: 72 h

The ecological data given are those of the active ingredient.

**Biodegradability** Evaluation of biodegradability is not relevant for micro-organisms.

**Koc** Bacillus Pumilus:No data available



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**Bioaccumulation** Evaluation of bioaccumulation is not relevant for micro-organisms. **Mobility in soil** Evaluation of mobility in soil is not relevant for micro-organisms.

Results of PBT and vPvB assessment

**PBT and vPvB assessment** Evaluation of PBT/vPvB properties is not relevant for micro-organisms.

**Environmental precautions** Do not allow to get into surface water, drains and ground water.

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.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Product Dispose in accordance with all local, state/provincial and federal

regulations.

Contaminated packaging Consult state and local regulations regarding the proper disposal of

container.

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**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

#### **SECTION 15: REGULATORY INFORMATION**

EPA Registration No. 264-1153

**US Federal Regulations** 

**TSCA list** 

Water 7732-18-5 Ammonium sulphate 7783-20-2

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

Yes. Export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

## **US States Regulatory Reporting**



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# CA Prop65

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Attapulgite clay 12174-11-7 Carcinogenic. Crystalline quartz (respirable) 14808-60-7 Carcinogenic.

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

Ammonium sulphate 7783-20-2 RI

Environmental CERCLA None.

Clean Water Section 307(a)(1)

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

## **EPA/FIFRA Information:**

This chemical is a pesticide product regulated 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 inhaled.

#### **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



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UN United Nations

WHO World health organisation

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Fourth 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,

\* = chronic health hazard

**Reason for Revision:** The following sections have been revised: Section 11: Toxicological Information. Section 15: Regulatory information. Section 16: Other Information. Reviewed and updated for general editorial purposes.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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