

### STANCE® PLANT REGULATOR

Version 2.0 / USA Revision Date: 07/07/2015 102000012499 Print Date: 01/04/2017

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

**Product identifier** 

Trade name STANCE® PLANT REGULATOR

Product code (UVP) 06528333

**SDS Number** 102000012499

**EPA Registration No.** 264-841

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

**Use** Herbicide

**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

Eye irritation: Category 2B

Acute toxicity (Inhalation): Category 4



Signal word: Warning

**Hazard statements** 

Causes eye irritation. Harmful if inhaled.

**Precautionary statements** 

Wash thoroughly after handling. Avoid breathing mist and spray.



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Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell.

#### Other hazards

No other hazards known.

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

Hazardous Component NameCAS-No.Concentration % by weightCyclanilide113136-77-92.10Mepiquat chloride24307-26-48.40

### **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.

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** No symptoms known or expected.

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.



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

**Extinguishing media** 

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

Unsuitable High volume water jet

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

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

**Further information** Fight fire from upwind position. Cool closed containers exposed to fire

with water spray. Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses. Use appropriate

extinguishing media for material that is supplying fuel.

Flash point

**Autoignition temperature** Lower explosion limit

no data available no data available

**Upper explosion limit** 

no data available

**Explosivity** 

not applicable

> 101.1 °C

### **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). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing

environmental regulations.

Additional advice Do not allow to enter soil, waterways or waste water canal. Do not

allow product to contact non-target plants.

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**



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### Precautions for safe handling

Advice on safe handling Maintain exposure levels below the exposure limit through the use of

general and local exhaust ventilation.

**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. Freezing will affect the physical condition but will not damage the

material. Thaw and mix before using.

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

#### **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Cyclanilide	113136-77-9	0.21 mg/m3 (OES BCS)		OES BCS*
Mepiquat chloride	24307-26-4	50ug/m3 (ST ESL)	03 2014	TX ESL
Mepiquat chloride	24307-26-4	5ug/m3 (AN ESL)	03 2014	TX ESL
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 (Respirable fraction.)	56-81-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust.)	56-81-5	10 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust and mist.)	56-81-5	10 mg/m3 (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction and dust or fume.)	56-81-5	5 mg/m3 (TWA)	06 2008	TN OEL
Glycerine	56-81-5	1000ug/m3 (ST ESL)	03 2014	TX ESL
Glycerine	56-81-5	50ug/m3 (ST ESL)	03 2014	TX ESL
Glycerine	56-81-5	100ug/m3 (AN ESL)	03 2014	TX ESL



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Glycerine	56-81-5	5ug/m3	03 2014	TX ESL
		(AN ESL)		

<sup>\*</sup>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

polyethylene or polyvinyl chloride

**Eye protection** Chemical resistant goggles must be worn.

**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 light grey
Physical State Liquid opaque
Odor characteristic
Odour Threshold no data available

**pH** 4.0 - 4.5 at 100 % (23 °C)

Vapor Pressureno data availableVapor Density (Air = 1)no data availableDensity1.05 g/cm³ at 20 °CEvapouration rateno data availableBoiling Pointno data availableMelting / Freezing Pointno data availableWater solubilityno data available

Solubility in other solvents no data available

Minimum Ignition Energy not applicable

Decomposition temperature

not applicable

## Bayer CropScience



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Partition coefficient: n-

octanol/water

no data available

Viscosity

no data available

Flash point

> 101.1 °C

**Autoignition temperature** 

no data available

Lower explosion limit

no data available no data available

Upper explosion limit Explosivity

not applicable

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

Reactivity

Thermal decomposition

not applicable

**Chemical stability** 

Stable under recommended storage conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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** Eye contact, Ingestion, Skin contact

**Immediate Effects** 

**Eye** Moderate eye irritation.

**Skin** Harmful if absorbed through skin.

**Ingestion** Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity LD50 (female rat) > 5,000 mg/kg

Acute inhalation toxicity LC50 (male/female combined rat) > 2.0 mg/l

Exposure time: 4 h

(actual)

LC50 (male/female combined rat) > 8.0 mg/l

Exposure time: 1 h



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(actual)

Acute dermal toxicity LD50 (male/female combined rat) > 5,000 mg/kg

Skin irritation Slight irritation (rabbit)

Eye irritation Mild eye irritation. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

### Assessment repeated dose toxicity

Cyclanilide did not cause specific target organ toxicity in experimental animal studies. Mepiquat chloride did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

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

Mepiquat chloride was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Cyclanilide was not carcinogenic in lifetime feeding studies in rats and mice. Mepiquat chloride was not carcinogenic in lifetime feeding studies in rats and mice.

#### **ACGIH**

None.

NTP

None.

IARC

None.

**OSHA** 

None.

### Assessment toxicity to reproduction

Cyclanilide 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 Cyclanilide is related to parental toxicity. Mepiquat chloride did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Cyclanilide caused developmental toxicity only at dose levels toxic to the dams.

No indication of developmental toxicity in animal tests.

Mepiquat chloride did not cause developmental toxicity in rats and rabbits.

#### **Further information**

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).



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

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) > 11 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient cyclanilide.

LC50 (Oncorhynchus mykiss (rainbow trout)) 4,300 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient mepiquat chloride.

Toxicity to aquatic invertebrates

EC50 (Daphnia (water flea)) > 5 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient cyclanilide.

LC50 (Daphnia (water flea)) 68.5 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient mepiquat chloride.

**Toxicity to aquatic plants** EC50 (Raphidocelis subcapitata (freshwater green alga)) > 1.7 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient cyclanilide.

**Biodegradability** Cyclanilide:

not rapidly biodegradable

Mepiquat chloride: rapidly biodegradable

**Koc** Cyclanilide: Koc: 358

Mepiquat chloride: Koc: 890

**Bioaccumulation** Cyclanilide: Bioconcentration factor (BCF) 0.36

Does not bioaccumulate.

Mepiquat chloride: Bioconcentration factor (BCF) 2

Does not bioaccumulate.

**Mobility in soil** Cyclanilide: Moderately mobile in soils

Mepiquat chloride: Slightly 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.

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

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

#### Waste treatment methods

**Product** Do not contaminate water, food, or feed by disposal.

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.



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

regulations.

Follow advice on product label and/or leaflet.

**Contaminated packaging** Do not re-use empty containers.

Triple rinse containers.

Completely empty container into application equipment, then dispose of

empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.

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**

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

Freight Classification: INHIBITORS, MODIFIERS OR REGULATORS, plant growth

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

**EPA Registration No.** 264-841

**US Federal Regulations** 

**TSCA list** 

Mepiguat chloride 24307-26-4

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

Mepiquat chloride 24307-26-4 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.



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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:** Hazard to humans and domestic animals.

Moderate eye irritation.

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing. Avoid contamination of feed and foodstuffs.

### **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



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NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 1 Others - none

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

Health - 1 Flammability - 1 Physical Hazard - 1 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:** 07/07/2015

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