



## Safety Data Sheet

### STANCE(TM) PLANT REGULATOR

SDS Number: 102000012499

SDS Version 1.1

Revision Date: 11/20/2012

Print Date: 11/20/2012

#### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product name</b>	STANCE(TM) PLANT REGULATOR
<b>SDS Number</b>	102000012499
<b>Product code (UVP)</b>	06528333
<b>EPA Registration No.</b>	264-841
<b>Product Use</b>	Herbicide

Bayer CropScience  
 2 T.W. Alexander Drive  
 Research Triangle PK, NC 27709  
 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-866-99BAYER (1-866-992-2937)

#### SECTION 2. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution! 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.

<b>Physical State</b>	Liquid opaque
<b>Odor</b>	characteristic
<b>Appearance</b>	white to light grey
<b>Exposure routes</b>	Eye contact, Ingestion, Skin contact
<b>Immediate Effects</b>	
<b>Eye</b>	Moderate eye irritation.
<b>Skin</b>	Harmful if absorbed through skin.
<b>Ingestion</b>	Harmful if swallowed.



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#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Cyclanilide	113136-77-9	2.10
Mepiquat chloride	24307-26-4	8.40
Glycerine	56-81-5	4.50

#### SECTION 4. FIRST AID MEASURES

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.  Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
<b>Eye</b>	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.
<b>Skin</b>	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.
<b>Ingestion</b>	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.
<b>Notes to physician Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

#### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	> 101.1 °C / > 214.0 °F
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available
<b>Explosiveness</b>	no data available



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<b>Fire and Explosion Hazards</b>	Dangerous gases are evolved in the event of a fire.
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	High volume water jet
<b>Fire Fighting Instructions</b>	<p>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.</p> <p>In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.</p>

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Keep unauthorized people away.
<b>Methods for cleaning up</b>	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.
<b>Additional advice</b>	Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

## SECTION 7. HANDLING AND STORAGE

<b>Handling procedures</b>	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
<b>Storing Procedures</b>	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.
<b>Work/Hygienic Procedures</b>	<p>Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.</p> <p>Avoid contact with skin, eyes and clothing.</p>



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**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection** Follow all label instructions. Train employees in safe use of the product. Eye wash facility and safety shower should be available.

Remove contaminated clothing immediately and dispose of safely.

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.

**Eye/Face Protection** Chemical resistant goggles must be worn.

**Exposure Limits**

Cyclanilide	113136-77-9	OES BCS*	OES BCS	0.21 mg/m3
Mepiquat chloride	24307-26-4	TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
Glycerine	56-81-5	ACGIH	TWA	10 mg/m3
		OSHA Z1	PEL	15 mg/m3
		OSHA Z1	PEL	5 mg/m3
		OSHA Z1A	TWA	10 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		TN OEL	TWA	10 mg/m3
		TN OEL	TWA	5 mg/m3
		TX ESL	ST ESL	1000 ug/m3
TX ESL	AN ESL	5 ug/m3		
TX ESL	AN ESL	100 ug/m3		
TX ESL	ST ESL	50 ug/m3		

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white to light grey
<b>Physical State</b>	Liquid opaque
<b>Odor</b>	characteristic
<b>pH</b>	4.0 - 4.5 (100 %)
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	1.05 g/cm <sup>3</sup> at 20 °C

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<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	no data available
<b>Solubility in other solvents</b>	no data available
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	no data available

**SECTION 10. STABILITY AND REACTIVITY**

<b>Conditions to avoid</b>	no data available
<b>Incompatibility</b>	no data available
<b>Hazardous Decomposition Products</b>	no data available
<b>Hazardous reactions</b>	No hazardous reactions known.
<b>Chemical Stability</b>	Stable under recommended storage conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical grade active ingredients, cyclanilide and mepiquat chloride.

<b>Acute oral toxicity</b>	female rat: LD50: > 5,000 mg/kg
<b>Acute dermal toxicity</b>	male/female combined rat: LD50: > 5,000 mg/kg



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**Acute inhalation toxicity** male/female combined rat: LC50: > 2.0 mg/l  
Exposure time: 4 h

male/female combined rat: LC50: > 8.0 mg/l  
Exposure time: 1 h

**Sensitisation** guinea pig: Non-sensitizing.

**Chronic toxicity** Cyclanilide did not cause specific target organ toxicity in experimental animal studies.

Mepiquat chloride caused kidney effects and/or neurological signs (e.g., spasms and/or tremors) in chronic toxicity studies in rats and dogs.

**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.

**Reproductive toxicity** 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.

**Developmental Toxicity** Cyclanilide caused developmental toxicity only at dose levels toxic to the dams. No indication of developmental toxicity in animal tests.

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

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to fish** Rainbow trout (Oncorhynchus mykiss)  
LC50: > 11 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient cyclanilide.

Trout



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LC50: 4,300 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient mepiquat chloride.

**Toxicity to aquatic plants** Pseudokirchneriella subcapitata  
EC50: > 1,000 mg/l  
Exposure time: 72 h  
The value mentioned relates to the active ingredient mepiquat chloride.

**Acute Toxicity to Aquatic Invertebrates** Daphnia  
EC50: > 13 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient cyclanilide.

Daphnia  
LC50: 68.5 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient mepiquat chloride.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Container Disposal** Triple rinse containers. If burned, stay out of smoke. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.

**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**

Mepiquat chloride	24307-26-4
Glycerine	56-81-5

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

Mepiquat chloride	24307-26-4
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**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**

Glycerine	56-81-5	MN, RI
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**Canadian Regulations**

**Canadian Domestic Substance List**

Mepiquat chloride	24307-26-4
Glycerine	56-81-5

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

Mepiquat chloride	24307-26-4
Glycerine	56-81-5

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1	Flammability - 1	Instability - 1	Others - none
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HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1	Flammability - 1	Physical Hazard - 1	PPE -
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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.

Revision Date: 11/20/2012

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