

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name	Mixture
Trade Names	COASTAL
CAS No.	Mixture
EPA Identification Number	Registration in progress

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

Identified Use(s)	Herbicide
Uses Advised Against	It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Details of the supplier of the safety data sheet**

Company Identification	Sipcam Agro USA, Inc. 2525 Meridian Parkway, Suite 350 Durham, NC 27713 United States of America
Telephone	(919) 226-1195

**Emergency telephone number**

Emergency Phone No.	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

OSHA HCS (29 CFR 1910.1200)

Refer to Section 11 for relevant product-level data.

Repr. 1B; STOT SE 1; STOT RE 1; Eye Irrit. 2B

**Label elements**

Hazard Symbol(s)



Signal Word(s)

**DANGER**

Hazard Statement(s)

May damage fertility or the unborn child.  
Causes damage to organs: Neuroendocrine system.  
Causes damage to organs through prolonged or repeated exposure: Neuroendocrine system.  
Causes eye irritation.



# COASTAL

## Precautionary Statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Use of high-pressure spray may cause toxic aerosols. Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

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

Wash hands and exposed skin after use.

Contaminated work clothing should not be allowed out of the workplace.

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 ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

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

## Other hazards

Contains: Prodiamine - May produce an allergic reaction in persons already sensitised. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

## Additional Information

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Simazine	25 - 30	122-34-9	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 1; H370 STOT RE 1; H372 Repr. 1B; H360 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Prodiamine	15 - 20	29091-21-2	Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Imazaquin	5 - 10	81335-37-7	Eye Irrit. 2; H319
2-Ethylhexyl Phosphate	1 - 5	12645-31-7	Skin Corr. 1B; H314 Eye Dam. 1; H318
Other / Inerts	> 30	57-55-6	Not classified as dangerous for supply/use.

Additional Information – None

## SECTION 4: FIRST AID MEASURES



## Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin Contact	Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye Contact	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.
Ingestion	Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.
<b>Most important symptoms and effects, both acute and delayed</b>	Contains: Prodiamine - May produce an allergic reaction in persons already sensitised.
<b>Indication of any immediate medical attention and special treatment needed</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray. Do not use water jet.

### Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.

### Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Do not get in eyes. Avoid contact with skin. Do not breathe spray/mists. Wear protective gloves/protective clothing/eye protection/face protection.

### Environmental precautions

Prevent substance entering sewers.

### Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery. Collect spillage. Wash the spillage area with water. If possible prevent water running into sewers.

### Reference to other sections Additional Information

None  
None

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not get in eyes. Avoid contact with skin. Do not breathe spray/mists. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace.

### Conditions for safe storage, including any incompatibilities

- Storage temperature                      Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

-Incompatible materials

Strong oxidizing agents or reducing agents. Strong acids / bases.

Specific end use(s)

Herbicide

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	-----	-----	-----	-----	-----	-----

### Exposure controls

#### Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure coarse spray only.

#### Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Gloves (PVC, Neoprene, or Natural rubber).



Respiratory protection

Not normally required. Do not breathe spray/mists.



Thermal hazards

Not normally required.

#### Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Liquid
Color.	Yellow
Odor	Slight / Faint
Odor Threshold (ppm)	Not available
pH (Value)	5.51
Melting Point/Freezing Point (C)	Not available
Boiling point/boiling range (°C)	Not available
Flash Point (°C)	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour Pressure ( Torr)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	1.149

Specific Gravity	Not available
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	517.8 @ 40 °C
Explosive properties	Not explosive
Oxidizing properties	Not available
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources.
<b>Incompatible materials</b>	Strong oxidizing agents or reducing agents. Strong acids / bases.
<b>Hazardous decomposition product(s)</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours: acrid smoke. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Skin Contact, Eye Contact

### Information on toxicological effects

#### Product-Level Data / Data on Mixture:

Acute toxicity (calculated / estimated)	Oral: LD50 >5000 mg/kg (rat) Dermal: LD50 >5000 mg/kg (rat) Inhalation: LC50 > 2.25 mg/L (4 hr) (rat; male/female)
Irritation/Corrosivity	Causes eye irritation. Unlikely to cause skin irritation.
Sensitization	It is not a skin sensitiser in animal tests. Contains: Prodiamine - May produce an allergic reaction in persons already sensitised.
Repeated dose toxicity	No data.
Carcinogenicity	No data.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity	No data.
Reproductive toxicity	No data.

#### Substances in preparations / mixtures:

##### Prodiamine (CAS#29091-21-2):

Acute toxicity (calculated / estimated)	Oral: LD50 >5000 mg/kg (rat) Dermal: LD50 >2000 mg/kg (rat) Inhalation: LC50 > 1.81 mg/L (4 hr) (rat) (Dust)
Irritation/Corrosivity	Mild irritant to rabbit eyes.
Sensitization	May cause an allergic skin reaction.
Repeated dose toxicity	NOEL = 7.2 mg/kg/day (rat) (2 years) NOEL = 6.0 mg/kg/day (dog) (1 years)

NOEL = 60 mg/kg/day (mouse) (11/2 years)

Carcinogenicity

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity  
Reproductive toxicity

Not to be expected.  
NOAEL = 200 ppm (rat)

Simazine (CAS#122-34-9):

Acute toxicity

Oral: LD50 >2000 mg/kg-bw (rat); Causes damage to organs: neuroendocrine system  
Dermal: LD50 >2000 mg/kg-bw (rat)  
Inhalation: LC50 >1.71 mg/L (rat)

Irritation/Corrosivity  
Sensitization

Causes serious eye irritation. Causes skin irritation.  
Not to be expected.

Repeated dose toxicity

Causes damage to organs through prolonged or repeated exposure: neuroendocrine system. NOEAL = 1.8 mg/kg-bw/day (rat)

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity

Not to be expected.

Reproductive toxicity

May damage fertility or the unborn child. NOAEL = 1.8 mg/kg-bw/day (rat)

## SECTION 12: ECOLOGICAL INFORMATION

Simazine (CAS# 122-34-9):

Short term

LC50 (96 hour): 0.8 mg/l (Danio rerio)  
LC50 (96 hour): 1 – 10 mg/l (Pimephales promelas)  
EC50 (48 hour): 0.056 – 2.2 mg/L (Daphnia magna)  
EC50 (72 hour): 0.1 - 1 mg/l (*Pseudokirchneriella subcapitata*)

Long Term

Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

Persistent

**Bioaccumulative potential**

The substance has low potential for bioaccumulation.

**Mobility in soil**

The substance has high mobility in soil.

**Results of PBT and vPvB assessment**

Not available.

**Other adverse effects**

None known.

Prodiamine (CAS# 29091-21-2):

Short term (estimated / calculated)

LC50 (96 hour): 3.2 - 20 mg/L (*Lepomis macrochirus*)  
EC50 (48 hour): >0.66 mg/L (Daphnia magna)  
EC50 (24 - 96 hour): 0.003 – 0.01 mg/L (Algae)

Long Term

Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

Persistent

**Bioaccumulative potential**

The substance has moderate potential for bioaccumulation.

**Mobility in soil**

Strongly adsorbed to soil.

**Results of PBT and vPvB assessment**

Not available.

**Other adverse effects**

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
<b>Additional Information</b>	None known.

## SECTION 14: TRANSPORT INFORMATION

	<b>Land transport (U.S. DOT) *</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>UN number</b>	UN 3082	UN 3082	UN 3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (Simazine and Prodiamine)		
<b>Transport hazard class(es)</b>	9	9	9
<b>Packing group</b>	III	III	III
<b>Hazard label(s)</b>	Marine Pollutant	Marine Pollutant	Marine Pollutant
<b>Environmental hazards</b>	Yes	Yes	Yes
<b>Special precautions for user</b>	None Assigned	None Assigned	None Assigned

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable

\* Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons).

## SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**TSCA (Toxic Substance Control Act)** - Inventory Status: All components listed or exempt.

**EPA FIFRA Information for SDS Section 15 (Regulatory Information):**

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non pesticide chemicals.

The hazard information required on the pesticide label is reproduced below:

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators, mixers, loaders, and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Protective eyewear such as goggles, face shield, or safety glasses

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### ENGINEERING CONTROL STATEMENTS



# COASTAL

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4- 6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided with all of the PPE specified above for applicators and other handlers, and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**User Safety Recommendations. Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- After handling this product immediately remove PPE, wash yourself thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

Imazaquin demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Simazine can travel (seep or leach) through soil and enter ground water which may be used as drinking water. Simazine has been found in ground water as a result of its use as a herbicide. Users are advised not to apply Simazine to sand and loamy soils where the water table (ground water) is close to the surface and where the soils are very permeable, i.e., well-drained. Your local extension agencies can provide further information on the type of soil in your area and the location of ground water.

Products must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells and sink holes. Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water and rain water that may fall on the pad. Surface water shall not be allowed to either flow over, or from, the pad which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain, at a minimum, 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional state imposed requirements regarding well-head setbacks and operational area containment must be observed.

**Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):**

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

**SARA 311/312 - Hazard Categories:** Refer to SECTION 2 - HAZARDS IDENTIFICATION

**SARA 313 - Toxic Chemicals (40 CFR 372):**

Chemical Name	CAS No.	Typical %wt.
Simazine	122-34-9	25 - 30



# COASTAL

## SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----	-----

## Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None	-----	-----	-----

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

**Date of preparation:** May 29, 2018

**Hazard Statement(s) and Risk Phrases Listed in:** SECTION 2:/ SECTION 3:

### Hazard Statement(s)

- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H360: May damage fertility or the unborn child.
- H370: Causes damage to organs.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

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