

**RIVERDALE CORSAIR SELECTIVE HERBICIDE****MATERIAL SAFETY DATA SHEET # 375****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Riverdale Corsair Selective Herbicide

**Chemical Family:** Sulfonylurea

**Chemical Name/  
Synonyms:** Chlorsulfuron

**Company Name:** Nufarm Americas Inc.  
1333 Burr Ridge Parkway, Suite 125A  
Burr Ridge, IL 60521-0866

**Phone Numbers:** For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, Call  
**CHEMTREC Day or Night: 1-800-424-9300.**  
For additional non-emergency information, call: 1-800-345-3330

**Date:** January 17, 2000

**Revisions:** New

**Reasons for Revisions:** New

**Supersedes:** New

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	TLV/TWA	%(by wt.)	CAS#
(2-Chloro-N-[4-Methoxy-6-methyl-1,3,5-triazin-2-yl] aminocarbonyl] benzenesulfonamide	ND AEL(DuPont) 10 mg/M <sup>3</sup> 8 & 12 hr. TWA	75%	64902-72-3
Inert Ingredients	NA	25%	NA

**3. PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b>	NA	<b>Specific Gravity (water=1):</b>	0.68 @ 25°C
<b>Melting Point:</b>	ND	<b>Bulk Density (lbs./cu. ft.):</b>	36 lbs/cu. ft.
<b>Vapor Pressure (mm Hg):</b>	NA	<b>Evaporation Rate:</b>	NA
<b>Vapor Density (air = 1):</b>	NA	<b>Percent Volatile:</b>	NA
<b>Solubility in Water:</b>	Dispersible	<b>Appearance and Odor:</b>	White to tan granules, no odor.
<b>pH:</b>	4.5		

**4. FIRE FIGHTING MEASURES**

<b>Flash Point (method Used):</b>	ND	<b>Auto Ignition Temperature:</b>	NA
<b>Lower Explosion Limits:</b>	0.090 g/L	<b>Upper Explosion Limits:</b>	ND
<b>NFPA/HMIS RATING:</b>	HEALTH	<b>FIRE</b>	<b>REACTIVITY</b>
	1	1	0
<b>Extinguishing Media:</b>	<input type="checkbox"/> Foam	<input type="checkbox"/> Alcohol Foam	<input checked="" type="checkbox"/> Dry Chemical

Water Spray Other CO<sub>2</sub>

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus. Use water spray. Cool tank/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contamination. Dike runoff from entering drains, sewers or water sources.

**Unusual Fire and Explosion Hazards:** Under severe dusting conditions, this material may form explosive mixtures in the air.

## 5. HAZARDS IDENTIFICATION

**Primary Route(s) of Entry:** Skin, eyes, inhalation, ingestion.

### Signs & Symptoms of Exposure

**Acute:** May irritate eyes, nose, throat and skin. Not a skin sensitizer. Produced very mild conjunctival irritation and slight corneal cloudiness in rabbits. Eyes were normal within 4 days.

**Chronic:** NOEL in diet was established at 500 ppm. Test animals experienced a moderate reduction in body weight in a daily feeding study over two years.

**Dietary:** Administration of 0, 100, 500, and 2,500 ppm chlorsulfuron to male and female young adult dogs for 6 months produced a no-observable-effect level (NOEL) of 2,500 ppm in the diet. No compound-related changes in nutritional, clinical, biochemical, gross or histopathological observations were made.

Administration of 0, 100, 500, and 2,500 ppm chlorsulfuron to male and female weanling rats for 2 years produced a NOEL of 100 ppm in the diet based on mild to moderate reduction in mean body weights and weight gains in male rats from the higher dose groups.

Oncogenicity studies conducted with male and female mice by dietary administration of 0, 100, 500 and 5,000 ppm chlorsulfuron for 2 years showed no compound-related behavioral, clinical, hematological, gross pathological, or histological abnormalities. Chlorsulfuron was not oncogenic at any level. The overall NOEL was 500 ppm as a body weight reduction occurred in the 5,000 ppm level.

**Reproduction:** (rats) The dietary presence of chlorsulfuron at 500 ppm had no adverse effect on the reproduction or lactation performance of young adult rats (3-generation, 2-litters per generation).

**Teratogenicity:** Not teratogenic in rats at 2,500 ppm or up to 75 mg/kg in rabbits.

**Mutagenicity:** Not mutagenic in Ames bacterial assay, Chinese Hamster Ovary mammalian cell assay, rat dominant lethal assay, in vitro cytogenetic assay, or DNA repair assay.

No data is available to confidently predict the effects of overexposure to humans; however, based on animal studies, human health effects of overexposure by inhalation, ingestion, or skin or eye contact may initially include: eye irritation with discomfort, tearing or blurring of vision, or irritation of the upper respiratory passages.

### Emergency First-Aid Procedures

**Eyes:** Flush eyes with plenty of water for 15 minutes. Call a physician.

**Skin:** Wash with soap and water. Wash contaminated clothing before reuse.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Call a physician.

**Ingestion:** Immediately give two glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

### Toxicity Information:

**Oral LD<sub>50</sub>:** 5,000 mg/kg (acute, rat)

**Dermal LD<sub>50</sub>:** >2,000 mg/kg (acute, rabbit)

**Inhalation LC<sub>50</sub>:** (rat): ND

**Eye Irritation:** Moderate but reversible.

**Skin Irritation:** Not a skin irritant or sensitizer.

**Positive Teratogen or Mutagen Carcinogen (NTP):** No

**Potential Carcinogen (IARC or OSHA):** No

## 6. REACTIVITY

**Stability:** Stable at normal temperatures and storage conditions.

**Conditions to Avoid:** Avoid high temperatures for storage.

**Incompatibility:** None reasonably foreseeable.

**Hazardous Decomposition Products:** May produce noxious gases at very high temperatures.

**Hazardous Polymerization:**  Will not occur  Will occur

## 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

**If material is spilled:** Sweep, vacuum or shovel material into a container for reuse or disposal. Do not allow product to contaminate drains, sewers, streams, ditches or bodies of water. Prevent large quantities from contacting vegetation. Keep animals away from large spills.

**Waste Disposal Method:** Dispose according to Federal EPA procedures as outlined in the Resource Conservation Recovery Act

(RCRA) and follow state and local guidelines. Triple rinse and puncture containers as required.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Protective Equipment Suggested for Outdoor Application:

Impervious Gloves     Dust Mask     Respirator(use NIOSH/MSHA approved)  
 Impervious Boots     Clean Clothing     Eye Goggles / Safety Glasses

### Protective Equipment Suggested for Confined Areas:

Sufficient Ventilation  Respirator(use NIOSH/MSHA approved)  
 Dust Mask     Splash Goggles/ Safety Glasses  
 Eyewash Station     Emergency Shower     Impervious Apron

## 9. HANDLING AND STORAGE

**Precautions:** Store in a cool, dry place if possible. Separate from other pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources.

**Other Precautions:** Use only with adequate ventilation. Keep away from heat, sparks and flames. Keep container tightly closed.

Do not consume food, drink or tobacco in the areas where they may become contaminated with this material.

Aquatic toxicity: Rainbow trout LC<sub>50</sub> (96 hr.)>250 ppm considered very low to slightly toxic.

## 10. REGULATORY INFORMATION

### SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES

Y Immediate (acute) Health

SEC 302: NA

N Delayed (Chronic) Health

SEC 313: NA

N Fire

CERCLA RQ: NA

N Sudden Release of Pressure

CAA RQ: NA

N Reactivity

HM 181 Shipping Name: Not Regulated.

NA = Not Applicable

ND = Not Determined

Preparation and distribution of this Material Safety Data Sheet done by Riverdale Chemical Company, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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