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 60527-0866

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-	ND		
1,3,5-triazin-2-yl) aminocarbonyl]	AEL(DuPont) 10 mg/M ³	75%	64902-72-3
benzenesulfonamide	8 & 12 hr. TWA		
Inert Ingredients	NA	25%	NA

3. PHYSICAL AND CHEMICAL CHARACTERISTICS

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

4. FIRE FIGHTING MEASURES

Flash Point (method Used): ND Auto Ignition Temperature: NA Lower Explosion Limits: 0.090 g/L Upper Explosion Limits: ND

NFPA/HMIS RATING: HEALTH FIRE REACTIVITY

1 0

Extinguishing Media: [] Foam [] Alcohol Foam [X] Dry Chemical

[X] Water Spray [] Other [] CO₂

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 dominants 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 LD₅₀: 5,000 mg/kg (acute, rat)

Inhalation LC₅₀: (rat): ND

Dermal LD₅₀: >2,000 mg/kg (acute, rabbit)

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: [X] 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:

[X] Impervious Gloves [] Dust Mask [] Respirator(use NIOSH/MSHA approved)

[X] Impervious Boots [X] Clean Clothing [X] Eye Goggles / Safety Glasses

Protective Equipment Suggested for Confined Areas:

[X] Sufficient Ventilation[] Respirator(use NIOSH/MSHA approved)

[X] Dust Mask [X] Splash Goggles/ Safety Glasses

[X] Eyewash Station [X] Emergency Shower [X] 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_{50} (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
N Delayed (Chronic) Health
SEC 302: NA
SEC 313: NA
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

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