

MATERIAL SAFETY DATA SHEET: ROOT-OUT

**Section I - General Information**

(000000-000000- 0243)

Date of Issue:  
4/28/1992 12:00:00 AM

Chemical Name & Synonyms:  
N/A

Chemical Family:  
AQUEOUS 2,6-DICHLOROBENZONITRILE SOLUTION

Manufacturer Name:  
CHEMSEARCH FE DIV. OF NCH CORP.

Manufacturer Address:  
BOX 152170  
IRVING, TX 75015

Prepared By:  
K JAEGER/CHEMIST

Supercedes:  
1/30/1992 12:00:00 AM  
Trade Name & Synonyms:  
ROOT-OUT

Formula is a mixture: [v]

Product Code Number:  
0243

Emergency Phone Number:  
800-424-9300

**Section II - Hazardous Ingredients**

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)  
2,6-DICHLOROBENZONITRILE

Hazard  
IRRITANT

TLV  
N/E 1.

PEL  
N/E 2.

STEL  
1194-65-6

**Section III - Physical Data**

Boiling Point (?F):210  
Vapor Pressure (mm Hg):20  
Vapor Density (Air=1):0.6  
pH @ 100% :8.0  
% Volatile by Volume:95  
H<sub>2</sub>O Solubility:COMPLETE

Specific Gravity (H<sub>2</sub>O=1):> 1.0  
Color:BEIGE  
Odor:NOT OBJECTIONABLE  
Clarity:OPAQUE  
Evaporation Rate (BuAc-1):0.10  
Viscosity:VISCOUS

**Section IV - Fire and Explosion Hazard**

Flash Point: NON-FLAM

Method Used:

Flammable Limits:

UEL: N/A

LEL: N/A

Aerosol Level (NFPA 30B): N/A

Extinguishing Media:

[v] Foam [v] Alcohol Foam [v] CO<sub>2</sub>  
[v] Dry Chemical [v] Water Spray [ ] Other

NFPA 704 Hazard Rating:

4-Extreme	Health: 1
3-High	Flammability: 1
2-Moderate	Instability: 1
1-Slight	Special:
0-Insignificant	

**Special Fire Fighting Procedures:**

AS WITH ALL CHEMICAL FIRES, WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. PRODUCT IS NON-FLAMMABLE.

**Unusual Fire and Explosion Hazards:**  
N/A

**Section V - Health and Hazard Data**

**Threshold Limit Value:**

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

**Effects of Overexposure:**

**Acute: (Short Term Exposure)**  
EYE CONTACT MAY CAUSE REDDENING AND TEARING.

**Chronic: (Long Term Exposure)**  
PROLONGED EYE CONTACT CAN BE IRRITATING, CAUSING REDDENING AND TEARING. SEE SECTION VI FOR FURTHER INFORMATION.

**Primary Routes of Entry**  
[ ] Inhalation [ ] Ingestion [v] Absorption

**Emergency First Aid Procedures:**

**Inhalation:**  
GET PERSON OUT OF CONTAMINATED AREA TO FRESH AIR. IF BREATHING HAS STOPPED, ARTIFICIAL RESPIRATION SHOULD BE STARTED. OXYGEN MAY BE ADMINISTERED, IF READILY AVAILABLE. SEEK MEDICAL ATTENTION IMMEDIATELY.

**Eye Contact:**  
IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS APART TO INSURE FLUSHING OF THE EYE SURFACE. SEEK MEDICAL ATTENTION IMMEDIATELY.

**Skin Contact:**  
IMMEDIATELY WASH CONTAMINATED SKIN WITH PLENTY OF SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION IMMEDIATELY.

**Ingestion:**  
IF SWALLOWED, VOMITING SHOULD BE INDUCED UNDER MEDICAL SUPERVISION. DRINK ONE OR TWO GLASSES OF WATER AN INDUCE VOMITING BY TOUCHING THE BACK OF THE THROAT WITH FINGER. DO NOT INDUCE VOMITING OR GIVE BY MOUTH TO AN UNCONSCIOUS PERSON.

**Notes to Physician:**  
N/A

**Section VI - Toxicity Information**

**Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:**

[ ] IARC [ ] NTP [ ] OSHA [ ] ACGIH [ ] Other

2,6-DICHLOROBENZONITRILE  
 ORL-RAT LD<sub>50</sub>: 2710MG/KG 2.  
 SKN-RBT LD<sub>50</sub>: 1350MG/KG 2.  
 UNK-MAM LD<sub>50</sub>: 100MG/KG 2.

**Section VII - Reactivity Data**

<b>Stability:</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	<b>Hazardous Polymerization:</b> <input checked="" type="checkbox"/> Will not occur <input type="checkbox"/> May occur
<b>Conditions to Avoid:</b> N/A	<b>Conditions to Avoid:</b> N/A

**Incompatibility (Materials to Avoid):**  
N/A

**Hazardous Decomposition Products:**  
OXIDES OF CARBON.

**Section VIII - Spill Or Leak Procedures****Steps to be Taken if Material is Released or Spilled:**

STOP LEAK. CONTAIN SPILL. REMOVE AS MUCH MATERIAL AS POSSIBLE WITH AN ABSORBANT MATERIAL, THEN DISPOSE OF CONTAMINATED ABSORBANT IN A CLOSED, LABELED CONTAINER AND CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE.

**Waste Disposal Method(s):**

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL POLLUTION REGULATIONS.

**Neutralizing Agent:**

LARGE AMOUNTS OF WATER WILL NEUTRALIZE.

**Section IX - Special Protection Information****Required Ventilation:**

GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREA SHOULD BE ISOLATED AND CONTAINED AND PROVIDED WITH ADEQUATE LOCAL EXHAUST VENTILATION OR OTHER CONTROLS.

**Respiratory Protection:**

TYPICAL USE OF THIS PRODUCT DOES NOT REQUIRE THE USE OF A RESPIRATOR. IF PRODUCT IS MISTED, USE NIOSH APPROVED MASK FOR SPRAY MIST.

**Glove Protection:**

WEAR PROTECTIVE RUBBER GLOVES TO MINIMIZE SKIN CONTACT.

**Eye Protection:**

SAFETY GOGGLES WITH SIDE SHIELDS WHEN MISTING.

**Other Protection:**

WEAR PROTECTIVE CLOTHING, LONG SLEEVED SHIRT AND PANTS, TO PREVENT SKIN CONTACT.

**Section X - Storage and Handling Information**

<b>Storage Temperature</b> Max: 120 F.      Min: 35 F.	<b>Storage Conditions</b> <input checked="" type="checkbox"/> Indoors <input type="checkbox"/> Outdoors <input type="checkbox"/> Heated <input type="checkbox"/> Refrigerated
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**Precautions to be Taken in Handling and Storing:**

KEEP CONTAINER CLOSED, STORE IN A COOL, DRY PLACE. STORE IN ORIGINAL CONTAINER. IF STORED OUTDOORS, PLACE THE CONTAINER ON ITS SIDE TO PREVENT WATER COLLECTING TO THE TOP OF THE DURM. WASH THOROUGHLY AFTER HANDLING.

**Other Precautions:**

DO NOT EAT, DRINK, OR SMOKE IN THE WORK AREA. DO NOT STORE NEAR SEEDS, FEEDS, FOOD STUFFS. AVOID CONTAMINATING WATER SOURCES. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. READ LABEL BEFORE USING.

**Section XI - Regulatory Information****Chemical Name****CAS Number****Upper % Limit**

None.

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

**Section XII - References**

1. THRESHOLD LIMIT VALUES AND BIOLOGICAL EXPOSURE INDICES, 1988-1989.
2. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITION,  
N. IRVING SAX.

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