3154370115

APR 3 2006

Facilities Management HEALTH AND SAFETY EPAH 10404-82



MATERIAL SAFETY **DATA SHEET** #1015

15865 Sprague Road, Strongsville, OH 44136-1799 Emergency Phone: LESCO: (800) 321-5325

CHEMTREC: (800) 424-9300

DATE ISSUED: 6/25/01 SUPERSEDES: 11/29/00

PRODUCT IDENTIFICATION

Product: LESCO Granular Fertilizer-All Analyses Chemical Family: Fertilizer Mixture Chemical Name/Synonyms: Granular fertilizers including all chemical, partially sulfur coated, 100 percent sulfur

TLV/TWA	· %(by wt.)	CAS#
ts. Check specific p	roduct label.	
10 mg/M³ (dust)	0-98	57-13-6
5 mg/M3 (resp)		
10 mg/M ³	0-95	7447-40-7
10 mg/M ³	0-95	7778-80-5
15 mg/M3 (dust)	0-95	7722-76-1
5 ma/M3 TLV		
15 mg/M² (dust)	0-95	7783-28-0
5 mg/M³ (resp)		
15 mg/M3 (dust)	0-95	7783-20-2
ND	0-95	471-34-1
5 ppm (SO ₂)	0-20	7704-34-9
15 mg/M³ (dust)	0-10	1309-37-1
		7720-78-7
15 mg/M3 (dust)	0-10	1317-35-7
15 mg/M ³ (dust)	0-10	7487-88-9
· · · · · · · · · · · · · · · · · · ·	0-10	9011-05-6
	0-10	14977-37-8
	0-10	39409-82-0
	0-10	ND
	ts. Check specific p 10 mg/M³ (dust) 5 mg/M³ (resp) 10 mg/M³ 10 mg/M³ 15 mg/M³ (dust) 5 mg/M³ (dust) NO 5 ppm (SO ₂) 15 mg/M³ (dust) 15 mg/M³ (dust) 15 mg/M³ (dust) 15 mg/M³ (dust)	ts. Check specific product label. 10 mg/M³ (dust) 0-98 5 mg/M³ (resp) 10 mg/M³ 0-95 10 mg/M³ 0-95 15 mg/M³ (dust) 0-95 5 mg/M³ (dust) 0-95 5 mg/M³ (dust) 0-95 5 mg/M³ (dust) 0-95 ND 0-95 5 ppm (SO₂) 0-20 15 mg/M³ (dust) 0-10 0-10 0-10

TLV of all chemicals and mixtures is 15 mg/M3; TWA is 10 mg/M3; Respirable dust TLV of 5 mg/M3, unless otherwise indicated.

111. PHYSICAL AND CHEMICAL CI		Specific Gravity (water=1):	NA
Boiling Point:	NA		
	NA	Bulk Density (lbs./cu. ft.):	45-6 5
Melting Point:	* ** *	Evaporation Rate:	NA
Vapor Pressure (mm Hg):	NA	— · · · · · · · · · · · · · · · · · · ·	
Vapor Density (air = 1)	NA	Percent Volatile:	NA
	Moderate	Appearance and Odor: Multicolored granules	
Solubility In Water:	Modetare		
pH; ND		slight pungent odor.	

FIRE AND EXPLOSION HAZARD DATA

Flash Point (method Used): NA (non combustible)

Auto Ignition Temperature: NA

Lower Explosion Limits: NA NFPAHMIS RATING:

Upper Explosion Limits: NA FIRE 1 HEALTH 1

REACTIVITY 0

Extinguishing Media:

() Feam

[] Alcohol Foam

Other X Water Spray

[] Dry Chemical

Special Fire-Fighting Procedures: Wear NIOSH approved positive pressure, self-contained breathing apparatus. Do not breathe fumes. Remove from area of fire at first opportunity. Prevent water runoff from entering drains, sewers or water sources. Fertilizer will become slippery when wet. Guard against falls.

Unusual Fire and Explosion Hazards: If heated to decomposition, will give off toxic fumes of ammonia and formaldehyde. Under fire conditions, urea may decompose to cyanuric acid, bluret or ammonia. Dispersion of fine dust in the air may form an explosive mixture.

Protective Equipment Suggested for Confined Areas:

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

[X] Splash Goggles/ Safety Glasses

[X] Eyewash Station

[X] Emergency Shower

[] Impervious

[] Impervious Apron

[X] Dust Mask

STORAGE AND HANDLING IX.

Precautions: Store in a cool, dry place if possible. Separate from pesticides, seed, feed, foodstuffs, and away from drains, sewers, and water sources. Do not eat, drink or smoke while handling this product.

Other Precautions: Keep out of reach of children. Practice good care and good safety precautions when handling this product. Avoid contact with eye, skin and clothing. Avoid breathing dust. Do not swallow. Wash thoroughly after handling.

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RIVERDALE TRIAMINE™ II

SECTION I

MANUFACTURER

RIVERDALE CHEMICAL COMPANY

425 West 194th Street Glenwood, Illinois 60425 Material Safety Data Sheet: 208

Emergency Telephone Number: 1-800-424-9300 CHEMTREC

3154370115

Telephone Number for Information: 1-800-345-

Date Prepared: April 24, 1996

Signature of Preparer (optional): Riverdale Chemical Company

SECTION II-HAZARDOUS INGREDIENTS! IDENTITY INFORMATION

	Camponents (Specific Chemical Identity; Common Name(a))	OSHA PEL	ACGIH TLV	Other Limits Recom- mended	% (optional)
	Dimethylamine Sait of 2-Methyl- 4-Chibropheno- xyaretic Add	NA	NA		17.15%
	CAS No; 2039-48-5				
	Dimethylamine Sait of 2-(2- Methyl-4-Chloro- pheoxy)proptonic Acid	NA	NA		16,94%
	CAS No: 32351-70-5	į.			
	Dimethylamine Sall of 2-(2,4- Dichloro- phenoxy) propienie Acid	NA	NA		16,69%
	CAS No: 53404-32-3				
	Water and Sequesier	ent			49,22%
_	TOTAL				100,0%

Under SARA Title III Sections 311/312 this product is classified as: An immediate health hazard, A delayed health hazard.

SECTION III-PHYSICAL/CHEMICAL CHARACTER-ISTICS

Boiling Point: 212 F Vapor Pressure (mm Hg.): NA Vapor Density (AIR =1): NA Specific Gravity (H₂O = 1): 1.130 Melting Point: NA Evaporation Rate (Butyl Acetate = 1): NA Solubility in Water: 100% Soluble in Water Appearance and Odor: Dark Amber Liquid, Slight

SECTION IV-FIRE AND EXPLOSION HAZARD

Flash Point (Method Used): None, Aqueous solution Flammable Limits: Not Determined

UEL: ND

Extinguishing Media: Dry Chemical, CO2, or Foam. Water spray to cool.

Special Fire Fighting Procedures: Will produce noxlous fumes under extreme fire conditions. Use a selfcontained breathing apparatus in confined areas and

Unusual Fire and Explosion Hazards: Drums of material will burst from steam pressure under extreme fire

SECTION V-REACTIVITY DATA

Stability: Stable Conditions to Avoid: None Incompatibility (Materials to Avoid): None Hazardous Decomposition or Byproducts: Noxious fumes when exposed to extreme fire conditions. Hazardous Polymerization: Will Not Occur Conditions to Avaid: None

SECTION VI-HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? Very Low Exposure Skin? Low Toxicity Ingestion? Moderate Toxicity Health Hazards (Acute and Chronic): EYES: May cause severe initiation with corneal injury.

SKIN: Prolonged exposure may cause skin irritation. INGESTION: Moderate to Low oral toxicity. LD₅₀ 1.6 g/kg.

Carcinogenicity: NTP? No

IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure: Moderate weakness, lethargy, anorexia under extreme exposure con-

Medical Conditions Generally Aggravated by Exposure: None determined

Emergency and First Aid Procedures: Flush exposed eyes or skin repeatedly with water. If swallowed. drink promptly a large quantily of milk, egg whites, or gelatin solution. Get medical attention.

SECTION VII-PRECAUTIONS FOR SAFE "HAN-DLING AND USE

Steps to Be Taken in Case Material is Released or Spiled: Contain spils. Pick up and absorb material with dry granules or sand. Remove as much as possible. Place in a closed marked container in a securad building for proper disposal.

Waste Disposal Method: Dispose of material in accordance with all Federal, State and local regulations concerning health and pollution.

Precautions to Be Taken in Handling and Storing: Keep away from children. Do not get in eyes or on skin or clothing. Do not store near fertilizers, seeds, insecticides or fungicides.

Other Precautions: Reed the Precautionary Statements on the Product Label before using or handling. Use only as directed on the label,

SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type): None required. Use a full face NIOSH approved respirator or mists.

Ventilation:

Local Exhaust: Reduce all mists Mechanical (General): None required Special:

Protective Gloves: Rubber chemical gloves

Eye Protection: Wear goggles or face shield when

mixing or loading, Other Protective Clothing or Equipment: Wear clothing suitable for protection from mixing, loading, or applying this product.

Work/Hygienic Practices: Remove contaminated clothing and wash before reuse.

4.PA + 228-206

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RIVERDALE MCPA-4 AMINE

Material Safety Data Sheet No.: 143

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form)

Form Approved

OMB No. 1218-0072 Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

MANUFACTURER

RIVERDALE CHEMICAL COMPANY

425 Wast 194th Street Glenwood, Illinois 60425

Emergency Telephone Number: 1-800-424-9300 CHEMTREC

Telephone Number for Information: 1-800-345-3330

Date Prepared: 2-14-92

Signature of Preparer (optional): Riverdale Chemical Company

Section ii -- Hazardous Ingredients/Identity Infor-

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA Pel	ACGIH TLV	Other Limits Recom- mended	% (op-
Dimethylamine Salt of 2-Methyl-4- Chlorophenoxy- acetic Add CAS No: 2039-46-5	NA	NA	NA	48.58%
Sodium Lignosulfonate CAS No: 68512-34-5	NA	NA	NA	0.50%
Waler CAS No: 007732-18-5	NA	NA	NA .	50.92%

TOTAL Under SARA Title ill Section 311/312 this product is classified as:

An immediate health hazard A delayed health hazard

Section III — Physical/Chemical Characteristics

Boiling Point: Above 212°F Vapor Pressure (mm Hg.): Equivalent to water Vapor Density (AIR = 1): NA Specific Gravity (H2O = 1): 1.140 Melting Point: NA

Evaporation Rate (Butyl Acetate = 1): NA Solubility in Water: 100% Soluble and dilutable with

Appearance and Odor: Dark liquid, mild ammonia

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used): Aqueous solution, does not flash

Flammable Limits: Not Determined LEL: ND

UEL: NO

Extinguishing Media: Dry chemical, CO2, foam. Water spray to cool

Special Fire Fighting Procedures: Product will generate toxic and noxious furnes under extreme fire conditions. Use self-contained breathing apparalus in confined areas and in smoke or fumes.

Unusual Fire and Explosion Hazards: Steel drums may burst under extreme fire conditions. Water run-off from fire fighting activities may spread product chemi-

Section V - Reactivity Data

Stability: Stable

Incompatibility (Materials to Avoid): Strong oxidiz-

Hazardous Decomposition or Byproducts: Noxious and toxic decomposition products from chlorinated hy-

Hazardous Polymerization: Will Not Occur

Section VI -- Health Hazard Data

Route(s) of Entry: Inhalation? Low hazard

Skin? Low Hazard

Ingestion? Moderate hazard

Health Hazards (Acute and Chronic): Corrosive may cause irreversible eye irritation and damage. Oral toxicity is LDsc 1.3 - 1.8 g/Kg body weight. Carcinogenicity:

NTP: No IARC Monographs; No OSHA Regulated:

Signs and Symptoms of Exposure: Exposure may irritate and damage eyes. Harmful if swallowed. Follow first-aid procedures.

Medical Conditions Generally Aggravated by Exposure: None noted EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with plenty of water for 15 minutes and get medical attention at once.

if Swallowed: Do not induce vomiting. Get medical attention immediately.

Section VII -- Precautions for Safe Handling and

Steps to Be Taken in Case Material is Released or Spilled: Contain all spills. Absorb spills with clay gran-ules or absorbent socks. Sweap up all material and place in an appropriate waste container. Do not allow spills or wash water to contaminate water supplies.

Waste Disposal Method: If waste cannot be disposed of according to label directions, contact your State Environmental Agency or nearest regional EPA Office for guidance.

Precautions to Be Taken in Handling and Storing: Store in original container in a secured warehouse or storage building. Do not store near seeds, fertilizers, or fungicides. Store at temperatures above 32°F. If allowed to freeze, warm to at least 40°F and remix before using. Freezing does not alter this product. Containers should be opened in well ventilated areas.

Section VIII -- Control Measures

Respiratory Protection (Spacify Type): NIOSH approved respirator for pesticides when mists or fumes are present. Vantilation:

Local Exhaust: Open air ventilation Mechanical (General): Not required Special: None

Protective Gloves: Chemical worker gloves Eye Protection: Splash goggles or face shield Other Protective Clothing or Equipment: Wear protective coveralis and chemical splash apron when han-

Work/Hyglanic Practices: Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before rause. OSHA 174, Sept. 1965

U.S.G.P.O.: 1986-491-529/45775

EPA#228-143

EPA# 228-145

3154370115

MATERIAL SAFETY DATA SHEET

UPDATES AVAILABLE AT WWW.GREENBOOK.NET

Weedestroy AM-40 Amine Salt

Riverdale

1333 Burr Ridge Parkway, Suite 125A

Burr Ridge, IL 60527-0868

Emergency Phone (Chemtrec): (600) 424-9300

Information Phone: (800) 345-3330

Date Issued: 2/17/98 Supersades: 2/4/92 Product Code: D145R MSDS Number: 145-1

MATERIAL SAFETY DATA SHEET: Weedestroy AM-

40 Amine Salt

1. INFORMATION ON INGREDIENTS

Chami- cal Name	CAS #	Weight	Com- mon Name	OSHA PEL	ACGII TLV
Dimethyl- amine Sak of 2,4- Dichtoro- phenoxy- acetic Acid	2008- 39-1	47.30%	DMA Sull of 2,4 D	10 mg/m3 (2,4-0 Acid)	N/A
Olher ingra- dients including water*	*7732- 18-5	<u>52,70%</u>	ineri ingredi- enis	N/A	N/A
•	Total	108.00%			

2. HEALTH DATA

PRIMARY ROUTE OF ENTRY:

Dermal/Eye: Yes Oral: Yes Inhalation: No

SYMPTOMS OF OVEREXPOSURE: Nonspecific: muscle weakness, lethergy, loss of appetite, abdominal pains, headache, or shortness of breath.

ACUTE HEALTH EFFECTS

Inhalation: Avoid inhaling vapors or mist. May irritate the respiratory tract or cause dizziness.

Eyes: Direct and prolonged eye exposure to the concentrated product may cause corneal opacity, irreversible eye damage.

Skin: This product is considered a minimal skin irritant and is not a dermal sensilizer. Harmful if absorbed through the skin. Repealed or prolonged exposure may cause effects similar to those caused by ingestion. ingestion: May cause muscle weakness, neusea, diarrhea, and abdominal pain. Fall in blood pressure or myotonia (prolonged muscular spasm) may occur under extreme exposure conditions. Can be fatal.

TOXICOLOGICAL DATA Acute Oral LD50: 1000 mg/kg Acute Dermal LD50: 1016 mg/kg Acute Inhalation LC50: > 3.5 mg/L Eye Irritation: severe irritation (rabbits) Dermal Irritation: minimal irritation Dermal Sensitization: not a sensitizer

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin exposure may aggravate existing skin conditions. Exposure to mist may aggravate existing respiratory conditions.

CHRONIC HEALTH EFFECTS: Repealed or pro-

longed overexposure to phenoxy herbicides may cause liver, kidney, gastroinlesilnal or muscular system effects. The EPA's Science Advisory Panel has given 2.4-D a class D classification (not classifiable as to human carcinogenicity). Various epidemiological studies have yielded conflicting results with the majority being negative. The current scientific consensus is that there is no proven casual association between 2,4-D and cancer. Recent studies have not shown 2,4-D to be a mulagen or teratogen.

	Agency Listing Carcino	ogen
NTP	IARC	OSHA
No	No	Na

3. FIRST AID MEASURES

EYE CONTACT: Hold eyellds open and flush entire eye with a steady, gentle stream of water for 15 min-utes. Get medical attention, preferably an ophthalmol-

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.

INGESTION: Drink promptly a large quantity of milk. egg whites or gelatin solution, or, if these are not available, drink large quantitles of water. Get medical attention. Avoid alcohol. Do not induce vomiting or give anything by mouth to an unconscious person.

SKIN CONTACT: Wash affected area with soap and water. If irritation persists, get medical attention.

water, in irrination persons, get medical accinion.

NOTE TO PHYSICIAN: Probable mucosal damage
may contraindicate gastric lavage. If large amounts
of the product were ingested, the stomach should be
emplied by gastric intubation.

4. FIRE FIGHTING MEASURES

FLASH POINT (F): N/A

FLASH POINT METHOD USED: None- aqueous solution

EXTINGUISHING MEDIA: Use CO2 or dry chemical for small lives and foam, water fog, or water stream for large fires. Use water spray to cool closed containers.
COMBUSTION PRODUCTS: May include, but are not Ilmited to: hydrogen chloride and nitrogen oxides SPECIAL FIRE FIGHTING PROCEDURES: May pro-

duce toxic and noxious fumes under extreme fire conditions. Use positive pressure self-contained breathing apparatus and acid resistant protective clothing. Any water used to extinguish the fire should be contained by diking to prevent contamination of the public water

UNUSUAL FIRE & EXPLOSION HAZARDS: Drums of product will burst from steam pressure under prolonged fire conditions.

See Section 13, REGULATORY INFORMATION, for NFPA ratings

5. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Wear the suggested safety equipment when cleaning large spills (section 7) Surround with impervious material such as dirt to prevent run-off. Absorb product with an inert absorbent such as clay granules or wood shavings. Contain all affected malerial in a closed, marked container for proper disposal. Treat the contaminated area with delergent and water. 2,4-D spills are subject to CERCLA (Superfund) reporting requirements. Reportable Quantity (RQ) = approximately 26 gallons of AM-40 Amine.

6. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Always use original container to store pes-ticides in a secured warehouse or storage building. Do not store near seeds, fertilizers, insecticides, or fungicides. Store at temperatures above 32 F. If allowed to freeze, rewarm to 40 F, remix thoroughly before using. Freezing does not after this product. Containers should be opened in well ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not contaminated water, food, or feed by storage or dis-

WORK HYGIENIC PRACTICE: 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. Remove protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE CONTROL/PERSONAL PROTEC-

RESPIRATORY PROTECTION: Respiratory proteclion is not normally required. Use a NIOSH/MSHA approved respirator when directly exposed to mist. VENTILATION: Open vanillation. Reduce all mist with local exhaust.

PROTECTIVE GLOVES; Rubber or chemical-resistant gloves (See Precautionary Statements on product label for details.)

EYE PROTECTION: Wear splash goggles, fact: shield, or safety glasses with front, brow, and temple protec-

OTHER PROTECTIVE EQUIPMENT: Long sleeved shirt, long pants, socks and shoas. Persons a gaged in open pouring must wear coveralls or a chemical resistant apron

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark brown liquid, mild

SOLUBILITY IN WATER: Infinite in water BOILING POINT (F): > 212 VAFOR PRESSURE (mm Hg @ 20 C); N/D SPECIFIC GRAVITY (H20 = 1); 1.161

FREEZING POINT (F): 32 POUNDS PER GALLON: 9.60

9. STABILITY AND REACTIVITY

STABILITY: Slable CONDITIONS TO AVOID: Avoid heat conditions INCOMPATIBILITY: Strong oxidizers or acids HAZARDOUS EYPRODUCTS: None
HAZARDOUS POLYMERIZATION: WIII Not Occur

10. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: 2,4-D has a relatively short half-life (on average 6-9 days in soil, 6-7 in grass) and is readily degraded into nontoxicological substances by soil microbes and aquatic microorganisms. Research has shown that 2,4-D does not bioaccumulate to any significant degree in mammals or in other organisms. ECOTOXICITY: This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect acualic invertebrates and nonlarget plants.

11. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Pesticide wastes are toxic. improper disposal of excess pesticide spray mix ures or rinsate is a violation of Federal law and may cor laminate groundwater. If product cannot be disposed of by use according to the label, contact your State Pest cide of Environmental Control Agency or the Hazar lous Waste Representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: Triple rinse (or equiva ent)

and offer for recycling, or puncture and dispose of in a sanilary landfill. Plastic containers are also disposable by incineration, or if allowed by Stale and Local authorities, by burning. If burned, stay out of smoke.

12. TRANSPORTATION INFORMATION

DOT REGULATED CONTAINER SIZE: 30 Gal, 55 Gal, 220 Gal, 260 Gal, Tank Truck

(All smaller container sizes are not DOT regulated) HAZARD CLASS: 9

UN NUMBER: UN 3082

PACKING GROUP: III **GUIDE NUMBER: 171**

PROPER SHIPPING NAME: RQ Environmentally Hazardous Substances, Liquid, N.O.S. (2,4-D Sall)

13. REGULATORY INFORMATION

SARA TITLE III; Section 311/312: An immediate and delayed health hazard. REPORTABLE QUANTITY (RQ): 100 lbs of 2,4-D a :id

equivalent or approximately 26 gallons of AM-40. For releases greater than the RQ, contact the National Response Center at (800) 424-8802.

HMIS INFORMA	TION
HEALTH:	2
FLAMMABILITY:	1
REACTIVITY:	0
PROTECTIVE:	ם

SARA TITLE III; Section 313-This product contains the following substances subject to the reportir g requirements of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 37:1:

MATERIAL SAFETY DATA SHEET

UPDATES AVAILABLE AT WWW.GREENBOOK.NET

TRUGREEN

L	NFPA INFORMA	TION	
	TOXICITY:	2	_
	FIRE:	1	- 1
	REACTIVITY:	O	1
1.	SPECIAL:	N	

The information given herein is to the best of our knowledge true and accurate. No warranty, however, expressed or implied, is made.