

RIVERDALE -- 2,4-D L.V.4 ESTER -- 6840-00-577-4194

===== Product Identification =====

Product ID:2,4-D L.V.4 ESTER

MSDS Date:08/29/1997

FSC:6840

NIIN:00-577-4194

MSDS Number: CJSTX

=== Responsible Party ===

Company Name:RIVERDALE

Address:425 WEST 194TH STREET

City:GLENWOOD

State:IL

ZIP:60425

Country:US

Info Phone Num:800-345-3330

Emergency Phone Num:800-345-3330

Resp. Party Other MSDS Num.:139 OR  
D139R

Chemtec Ind/Phone:(800)424-9300

CAGE:LO771

=== Contractor Identification ===

Company Name:GOURMET INQUE LTD

Address:191 STANLEY ST

Box:City:ELK GROVE VILLAGE

State:IL

ZIP:60007-1555

Country:US

Phone:847-296-6192/FAX: 800-542-1042

Contract Num:SP0450-00-M-D172

CAGE:0TNN7

Company Name:GOURMET INQUE LTD

Address:191 STANLEY ST

Box:City:ELK GROVE VILLAGE

State:IL

ZIP:60007-1555

Country:US

Phone:847-296-6192/FAX: 800-542-1042

Contract Num:SP0450-01-M-D324

CAGE:0TNN7

Company Name:RIVERDALE

Addr

ess:425 WEST 194TH STREET  
Box:City:GLENWOOD  
State:IL  
ZIP:60425  
Country:US  
Phone:800-345-3330  
CAGE:LO771  
Company Name:TIMBERLAND ENTERPRISES INC  
Address:140 ARKANSAS ST  
Box:557  
City:MONTICELLO  
State:AR  
ZIP:71655  
Country:US  
Phone:501-367-8561  
Contract Num:SP0450-00-M-SE55  
CAGE:1HB45

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===== Composition/Information on Ingredients =====

Ingred Name:ISOOCTYL (2-ETHYLHEXY) ESTER OF 2,4-DICHLOROPHENOXYACETIC  
ACID  
CAS:1928-43-4  
Code:F  
RTECS #:AG8525000  
= Wt:67.2  
OSHA PEL:10 MG/M3 2  
,4-D ACID

Ingred Name:KEROSENE AND EMULSIFIER  
CAS:8008-20-6  
RTECS #:OA5500000  
= Wt:32.8

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===== Hazards Identification =====

LD50 LC50 Mixture:ACUTE ORAL LD50 - 1250 MG/KG  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: THIS PRODUCT CONTAINS  
PETROLEUM DISTILLATES. EXCESSIVE INHALATION MAY CAUSE RESPIRATORY  
IRRITATION, DIZZINESS, WEAKNESS, NAUSEA, HEA

DACHE, OR POSSIBLE

UNCONSCIOUSNESS. EYE: MAY CAUSE SLIGHT EYE IRRITATION. SKIN: MAY CAUSE MILD SKIN IRRITATION OR DERMAL SENSITIZATION REACTIONS IN SOME INDIVIDUALS. HARMFUL IF ABSORBED THROUGH SKIN. PROLONGED OR REPEATED OVEREXPOSURE MAY RESULT IN EFFECTS SIMILAR TO THOSE CAUSED BY INGESTION. INGESTION: MAY CAUSE MUSCLE WEAKNESS, NAUSEA, DARRHEA, AND ABDOMINAL PAIN. FALL IN BLOOD PRESSURE OR MYOTONIA (PROLONGED MUSCULAR SPASM) MAY OCCUR UNDER EXTREME EXPOSURE

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CONDITIONS. CAN BE FATAL.

Explanation of Carcinogenicity: REPEATED OR PROLONGED OVEREXPOSURE TO PHENOXY HERBICIDES MAY CAUSE LIVER, KIDNEY, GASTROINTESTINAL 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 YIELDED CONFLICTING RESULTS WITH MAJORITY BEING NEGATIVE. NO PROVEN ASSOCIATION.

Effects of Overexposure: NONSPECIFIC MUSCLE WEAKNESS, LETHARGY, LOSS OF

APPETITE, ABDOMINAL PAIN, HEADACHE, OR SHORTNESS OF BREATH. NOTE TO PHYSICIAN: THIS PRODUCT CONTAINS PETROLEUM DISTILLATES. IF LARGE AMOUNTS HAVE BEEN INGESTED, EMPTY THE STOMACH BY GASTRIC INTUBATION WITH THE AID OF A CUFFED ENDOTRACHEAL TUBE TO PREVENT ASPIRATION AND POSSIBLE CHEMICAL PNEUMONIA.

Medical Cond Aggravated by Exposure: SKIN EXPOSURE MAY AGGRAVATE EXISTING SKIN CONDITIONS. EXPOSURE TO MIST MAY AGGRAVATE EXISTING RESPIRATORY CONDITIONS.

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===== First Aid Measures =====

First Aid: EYES: HOLD EYELIDS OPEN & FLUSH ENTIRE EYE WITH A STEADY, GENTLE STREAM OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: CALL A PHYSICIAN OR POISON CONTROL CENTER. DO NOT INDUCE VOMITING. DRINK PROMPTLY, LARGE QUANTITY OF MILK, EGG WHITES, GELATIN SOLUTION, OR IF NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. AVOID ALCOHOL. DO NOT GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. WASH AFFECTED AREA WITH SOAP & WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Flash Point Method: TCC

Flash Point: =66.7C, 152.F

Extinguishing Media: USE CARBON DIOXIDE (CO2) OR DRY CHEMICAL FOR SMALL FIRES AND WATER FOG OR FOAM FOR LARGE FIRES. USE WATER SPRAY

TO

COOL CLOSED CONTAINERS.

Fire Fighting Procedures:MAY PRODUCE 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 SYSTEM.

Unusual Fire/Explosion Hazard:WHEN HEATED ABOVE THE FLASH POINT THIS MATERIAL EMITS FLAMMABLE VAPORS WHICH, WHEN MIXED WITH AIR, CAN BU

RN OR BE EXPLOSIVE. FINE MIST OR SPRAY MAY BE FLAMMABLE AT TEMPERATURES BELOW THE FLASH POINT.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR THE SUGGESTED SAFETY EQUIPMENT WHEN CLEANING LARGE SPILLS. SURROUND WITH IMPERVIOUS MATERIAL SUCH AS DIRT TO PREVENT RUN-OFF. ABSORB PRODUCT WITH AN INERT ABSORBENT SUCH AS CLAY GRANULES OR SAWDU ST. CONTAIN ALL AFFECTED MATERIAL IN A CLOSED, MARKED CONTAINER FOR PROPER DISPOSAL. 2,4-

D SPILLS ARE

SUBJECT TO CERCLA(SUPERFUND) REPORTING REQUIREMENTS. REPORTABLE QUANTITY(RQ)=26 GALLONS OF PRODUCT

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:ALWAYS USE ORIGINAL CONTAINER TO STORE PESTICIDES IN A SECURED WAREHOUSE OR STORAGE BUILDING. DO NOT STORE SEEDS, FERTILIZERS, INSECTICIDES OR FUNGICIDES. CONTAINERS SHOULD BE OPENED IN WELL VENTILATED AREAS. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

Other Precautions:KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. DO NOT STACK CARDBOARD CASES MORE THAN TWO PALLETS HIGH. PRODUCT DISPOSAL: IF PRODUCT CANNOT BE DISPOSED OF ACCORDING TO LABEL, CONTACT STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY OR HAZARDOUS WASTE REPRESENTATIVE AT NEAREST EPA REGIONAL OFFICE FOR GUIDANCE.

===== Exposure Controls/Personal Protection =====

Respiratory Protectio

n:WEAR A NIOSH/MSHA APPROVED PESTICIDE RESPIRATOR  
WHEN EXPOSED TO MIST.

Ventilation:OPEN VENTILATION. REDUCE ALL MIST WITH LOCAL EXHAUST.

Protective Gloves:CHEMICAL-RESISTANT GLOVES. (SEE PRECAUTIONARY  
STATEMENT ON PRODUCT LABEL)

Eye Protection:FACE SHIELD, SPLASH GOGGLES OR SAFETY GLASSES W/ FRONT,  
BROW & TEMPLE PROTECTIO

Other Protective Equipment:LONG SLEEVED SHIRT, LONG PANTS, SOCKS AND  
SHOES. (SEE PRECAUTIONARY STATEMENTS ON PRODUCT LABEL)

Work Hygienic Practices: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.

Supplemental Safety and Health

REMOVE PROTECTIVE EQUIPMENT AFTER HANDLING THIS PRODUCT. WASH THE  
OUTSIDE OF GLOVES WHEN REMOVING. AS SOON AS POSSIBLE, WASH  
THOROUGHLY AND CHANGE INTO CLEAN CLOTHING.

===== Physical/Chemical Properties =====

HCC:V4

Boiling Pt:>204.4C, 400.F

M

elt/Freeze Pt:M.P/F.P Text:NOT DETERMINED

Vapor Pres:2000 MG/M3; ACUTE INHALATION LC50: >5 MG/L. EYE IRRITATION:  
MINIMAL IRRITATION. DERMAL IRRITATION: MINIMAL IRRITATION. DERMAL  
SENSITIZER: IS A SENSITIZ ER.

===== Ecological Information =====

Ecological: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 NON-TOXICOLOGICAL SUBSTANCES BY SOIL MICROBES AND AQUATIC

MICRO-ORGA NISMS. RESEARCH HAS SHOWN THAT 2,4-D DOES NOT  
BIOACCUMULATE TO ANY SIGNIFIGANT DEGREE IN MAMMALS OR IN OTHER  
ORGANISMS. ECOTOXICITY: THIS PRODUCT IS TOXIC TO AQUATIC  
INVERTABRATES. DRIFT OR RUN-OFF MA Y ADVERSELY AFFECT AQUATIC  
INVERTABRATES AND NON-TARGET PLANTS.

===== Disposal Considerations =====

Waste Disposal Methods:CONTAINER:TRIPLE RINSE(OR EQUIVALENT)& OFFER FOR  
RECYCLING, OR PUNCTURE & DISPOSE OF IN SANITARY LANDFILL. PLA

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CONTAINERS DISPOSABLE BY INCINERATION, IF ALLOWED BY STATE & LOCAL  
AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

===== MSDS Transport Information =====

Transport Information:US DOT: HAZARD CLASS: 3; IN NUMBER: NA1993;  
PACKING GROUP: III; GUIDE NUMBER: 128; PROPER SHIPPING NAME: RQ  
COMBUSTIBLE LIQUID, N.O.S. (CONTAINS KEROSENE, 2,4-D ESTER).  
REGULATED CONTAINER SIZES: 30 G AL, 55 GAL, 220 GAL, (ALL SMALLER  
CONTAINER SIZES ARE  
NOT DOT REGULATED). (DLA-HMIS: THIS IS A BOX  
CONTAINING 2 X 2 1/2 GALLON; THEREFORE IS NOT REGULATED).

===== Regulatory Information =====

SARA Title III Information:SARA TITLE II, SECTION 313: THIS PRODUCT  
CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING  
REQUIREMENTS OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF  
1986 AND 40 CFR PART 372: 2,4-D 2-ETHYLHEXYL ESTER, CAS#  
1928-43-4. SARA TITLE III SECTION 311/312: AN IMMEDIATE AND DELAYED  
HEALTH HAZARD. A FIRE HAZARD.

Federal Regulatory Information:100 LBS OF 2,4-D ACID EQUIVALENT OR  
APPROXIMATELY 26 GALLONS OF 2,4-D L.V. 4 ESTER. FOR RELEASES  
GREATER THAN THE RQ, CONTACT THE NATIONAL RESPONSE CENTER AT  
800-424-8802. EPA REGISTRY NUMBER: 228-139 .

State Regulatory Information:NONE SPECIFIED BY MANUFACTURER.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):

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