

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION	
<b>NFPA Rating:</b> Health-2; Flammability-2; Reactivity-0; Special- - <b>Manufactured For:</b> LYN DISTRIBUTING <b>Address:</b> 965 North Redwood Road North Salt Lake, Utah 84054	<b>HMIS Rating:</b> Health-2; Flammability-2; Reactivity-0; Personal Protection-E <b>DOT Hazard Classification:</b> Flammable Liquid, 3 <b>Identity</b> (trade name as used on label): T.W.K. WEED KILLER
<b>Date Prepared:</b> 01/10/97 <b>Prepared By:</b> STAN <b>Information Calls:</b> (801)295-5022 <b>EMERGENCY RESPONSE NUMBER:</b> 1(800)366-5022	<b>MSDS Number:</b> <b>Revision -</b> 2 NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
PETROLEUM DISTILLATE	68476-30-2	No	500	500	d
2,4-D ISOCTYL ESTER	1928-44-5	No	10mg/m3	10mg/m3	e
5-BROMO-3-SECBUTYL METHYLURACIL	314-40-9	No	10mg/m3	10mg/m3	e

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
<b>Boiling Point:</b> Initial 430°F	<b>Specific Gravity</b> (H <sub>2</sub> O=1): .88-.92
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): N/A	<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): 100°F 5
<b>Vapor Density</b> (Air = 1): 6.0	<b>Evaporation Rate</b> (BUAC = 1): 0.07
<b>Solubility in Water:</b> Insoluble	<b>Water Reactive:</b> Negligible
<b>Appearance and Odor:</b> Amber fluid with aromatic odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A	<b>Auto Ignition Temperature</b> N/A	<b>Flammability Limits in Air by % in Volume:</b> % LEL: 1.0      % UEL: 6.0
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): 104°F TCC		<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Do not enter confined space without full bunker gear including positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.
<b>EXTINGUISHER MEDIA:</b> Carbon dioxide, sand, dry chemical, water fog.		
<b>Unusual Fire &amp; Explosion Hazards:</b> Oxidation & thermal decomposition can liberate noxious & toxic fumes.		

SECTION 4 - REACTIVITY HAZARD DATA	
<b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE	<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR
<b>Incompatibility</b> (Mat. to avoid): Strong oxidizing agents.	<b>Conditions to Avoid:</b> Excessive heat, sparks, open flame.
<b>Hazardous Decomposition Products:</b> Oxides of carbon & nitrogen, hydrogen chloride, hydrogen bromide, unidentified organics.	

SECTION 5 - HEALTH HAZARD DATA	
<b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS	
<b>ACUTE EFFECTS:</b> CNS symptoms: giddiness, headache, dizziness, nausea, unconsciousness.	
<b>Inhalation:</b> High vapor or spray mist concentrations may produce nose, throat & respiratory irritation & may cause CNS depression (see symptoms above).	
<b>Eye Contact:</b> Liquid is slightly irritating. High vapor concentrations may be irritating.	<b>Skin Contact:</b> Prolonged or repeated contact can result in defatting of skin, irritation and dermatitis.
<b>Ingestion:</b> Not highly toxic, but may result in vomiting. Aspiration of vomitus may result in pneumonitis.	
<b>CHRONIC EFFECTS:</b> None known.	
<b>Medical Conditions Generally Aggravated by Exposure:</b> Pre-existing eye, skin and respiratory disorders.	

EMERGENCY FIRST AID PROCEDURES	
<b>Eye Contact:</b> Flush with water for 15 minutes. while holding lids open. Get medical attention.	
<b>Skin Contact:</b> Remove contaminated clothing. Wipe excess from skin. Wash with soap and water. If irritation persists, get medical attention.	
<b>Inhalation:</b> Remove to fresh air. If CNS symptoms occur, get medical attention.	
<b>Ingestion:</b> <b>DO NOT INDUCE VOMITING.</b> Drink 3 to 4 glasses of water. Get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
<b>Respiratory Protection (specify type):</b> Avoid prolonged or repeated breathing of vapors or spray mist. Respirator not required with adequate ventilation.	
<b>Protective Gloves:</b> Chemical resistant.	<b>Eye Protection:</b> Safety glasses or goggles as appropriate.
<b>Ventilation Requirements:</b> Normal room ventilation is adequate for normal handling & storage. For large spills, use explosion-proof ventilation to control vapor concentration.	
<b>Other Protective Clothing &amp; Equipment:</b> Eyewash stations & safety showers. Chemical resistant clothing as needed to minimize contact.	
<b>Hygienic Work Practices:</b> Do not eat, drink or smoke in work area. Wash hands after handling. Launder contaminated clothing before reuse.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE	
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Contain spill. Do not contaminate sewers, ground waters or surface waters. Soak up in inert absorbent material & place into properly labeled & sealed non-leaking containers for disposal in authorized manner as hazardous waste.	
<b>Waste Disposal Methods:</b> Dispose of in accordance with all local, state and federal regulations.	
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme cold. Keep away from sources of heat, sparks or open flame.	
<b>Other Precautions &amp;/or Special Hazards:</b> <b>KEEP OUT OF REACH OF CHILDREN.</b> Read & follow label directions. Do not cut or weld on full, part full or empty drums because explosive mixtures of air & vapor may be present.	

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*  
 \*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only