

Superior Industries, Inc.  
Chattanooga, TN 37421

## HMIS RATINGS:

Health: 2  
Flammability: 2  
Reactivity: 0  
Personal Protection: G

## Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Liqua Thol K (aerosol)	Emergency Telephone Number: (800)476-2072
Chemical Family: Herbicide	Date Prepared: March 12, 2004
Company Identification: Superior Industries, Inc.	MSDS Number: RA-695
P.O. BOX 8	MFGD. BY: Superior Industries, Inc.
Chattanooga, TN 37401	6180 Airways Blvd.
	Chattanooga, TN 37421

## Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	% BY WGT.	OSHA PEL/ACGIH TLV	SARA 302/304(1)*	SARA 313 (2)*	STATE INFO(3)(4)	CERCLA RQ
68476-34-6	Fuel Oil	< 81.0	5 mg/m3 / 5 mg/m3	NO	NO	NO	
64742-94-5	Aromatic Hydrocarbon	< 13.0	100 ppm / 100 ppm	NO	NO	NO	
111-90-0	Diethylene Glycol Monoethyl Ether	< 5.0	n/e / n/e	NO	YES	NO	
314-40-9	Bromacil	0.98	n/e / n/e	NO	YES	NO	
1928-43-4	Isooctyl 2-ethylhexyl ester of 2,4-D	1.09	10 mg/kg / n/e	NO	YES	NO	
91-20-3	Naphthalene	< 2.0	n/e	NO	YES	(3)	100 lbs
124-38-9	Carbon Dioxide	-	800 ppm				

\* See Section 15 for more information

n/e = none established - n/a = not applicable

## Section 3: HAZARDS IDENTIFICATION

## EMERGENCY OVERVIEW

WARNING. Combustible. Keep away from heat and flame. Harmful or fatal if swallowed. Vapor harmful. Harmful if absorbed through skin. Can cause nervous system depression. Contents under pressure.

Primary Route of Entry: Skin contact/absorption, inhalation, eye contact

## Acute/Potential Health Effects:

EYES: May cause mild eye irritation. Symptoms include stinging, tearing and redness.

SKIN: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Absorption from prolonged or massive skin contact may cause poisoning.

INHALATION: Avoid breathing vapors or mists. May cause dizziness, nausea, headache or loss of consciousness.

INGESTION: Harmful or fatal if swallowed. Aspiration hazard - this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

**Section 3: HAZARDS IDENTIFICATION - continued:**

Chronic / Long Term Effects: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Signs and Symptoms of Overexposure: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of material through the skin may include: stomach or intestinal upset (nausea vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

Target Organ Effects: No data.

**Reproductive/Developmental Information:**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause cancer.

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**Section 4: FIRST AID MEASURES**

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Seek medical attention immediately. Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Do not leave individual unattended.

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**Section 5: FIRE FIGHTING MEASURES**

Flash Point: 155 degrees F (CC Method), flame extension: none  
Extinguishing Media: Dry chemical, CO2 or foam is recommended.  
Special Fire Fighting Instructions: CAUTION. Contents under pressure. Cool exposed containers with water spray to prevent bursting. SCBA should be used whenever chemical fires are present.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth). Eliminate all ignition sources. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

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**Section 7: HANDLING AND STORAGE**

Do not use or store near heat, sparks or open flame. Exposure to temperatures above 120 F may cause bursting. Do not puncture or incinerate container. Do not use in or on electrical equipment. Do not get in eyes, on skin or on clothing. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal. Keep out of reach of children.

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**Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION**

Eye Protection: Wear safety glasses or goggles.

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Skin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene), clothing and boots.

Respiratory Protection: When respiratory protection is required, use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 and ANSI Z88.2 requirements must be followed.

Engineering Controls: Good general ventilation required.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odor: Amber-brown liquid with solvent odor.  
pH Concentrate: n/a  
Solubility in Water: Insoluble  
Vapor Pressure [mmHg]: n/e  
Evaporation Rate (Butyl Acetate=1): n/e  
Vapor Density [Air=1]: n/e  
Specific Gravity [H2O=1]: 0.88  
Boiling Point: 430 F

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**Section 10: REACTIVITY**

Stability: Stable  
Hazardous Polymerization: Will not occur  
Conditions to avoid: High temperature  
Hazardous Decomposition Products: CO, CO2  
Incompatibility: Acids and strong oxidizers

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**Section 11: TOXICOLOGICAL INFORMATION**

Acute Oral: > 5g/kg (rat), Acute Inhalation: LC50 > 2.03 mg/L (4hr-rat), Acute Dermal: LD50 >2g/kg (rabbit), Primary Dermal: Toxicity Category IV

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**Section 12: ECOLOGICAL INFORMATION**

Bromacil: 96 hr LC50, fathead minnow: 182 mg/L  
Toxic to aquatic invertebrates.

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**Section 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method:

Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

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**Section 14: TRANSPORTATION INFORMATION**

D.O.T. Shipping Name / Class:

Not regulated for ground domestic shipments.

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**Section 15: REGULATORY INFORMATION**

U.S. Federal Regulations:

TSCA (Toxic Substances Control Act): The intentional ingredients of product are listed.

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Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic (X) Fire (X) Pressure (X) Reactive ( ) Not Applicable ( )

(1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355 Appendix A

(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s)  
D016

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.

(3) California proposition 65 (Safe Drinking Water &amp; Toxic Enforcement Act of 1986)

(4) Massachusetts (Hazardous Substance Disclosure by Employers)

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**Section 16: OTHER INFORMATION**

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.