



# Material

# Safety

# Data

# Sheet

## SECTION 1 - IDENTIFICATION

PRODUCT NAME: Lime Buster! •

CAS NO: Not applicable to mixtures

SUPPLIER: Whink Products Company, 1901 15<sup>th</sup> Avenue, P.O. Box 230, Eldora, IA 50627 USA

Tel: 001-641-939-2353 Fax: 001-641-939-2485

**EMERGENCY PHONE: 1-800-229-6036**

**CHEMTREC: 1- 800-424-9300**

## SECTION 2 - COMPOSITION INFORMATION ON HAZARDOUS INGREDIENTS

(As per OSHA Hazardous Communication Standard, CFR29 1910.1200 and Canadian WHMIS Regulations)

INGREDIENTS	CAS NO	WT%	ACGIH		OSHA		VOC
			TLV	STEL	PEL	STEL	Reportable
Sulfamic Acid	5329-14-6	----	None	None	1 mg/m3	None	0%
Hydroxyacetic Acid	79-14-1	----	None	None	None	None	0%

\* This product and/or components are listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

## SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: CAUTION: May cause severe irritation to eyes. May be irritating to respiratory tract. May be fatal if swallowed. Potential Health Effects:

Eye Contact: Short term exposure; irritation (possibly severe), burns, eye damage, blindness. Long term exposure; visual disturbances.

Skin Contact: Short term exposure; irritation (possibly severe), burns. Long term exposure; dermatitis.

Inhalation: Short term exposure; irritation (possibly severe) burns, pulmonary edema. Long term exposure; not tested.

Ingestion: Short term exposure; irritation (possibly severe), burns, nausea, vomiting. Long term exposure; unknown.

Carcinogen status: OSHA: No NTP: No IARC: No

## SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods. If irritation occurs get medical attention.

INGESTION: Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Get medical attention.

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio-Pulmonary Resuscitation/Automatic External Defibrillator).

NOTE TO PHYSICIAN: The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

## SECTION 5 - FIRE-FIGHTING MEASURES

GENERAL HAZARD: Negligible fire hazard. EXTINGUISHING MEDIA: Use extinguishing media suitable for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: None. FIRE FIGHTING: Move container from fire area if it can be done without risk.

SENSITIVITY TO MECHANICAL IMPACT: Not sensitive.

SENSITIVITY TO STATIC DISCHARGE: Not sensitive.

FLASH POINT: Not flammable.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Avoid contact with skin. Contain spill in order to prevent contamination of sewage system or water way.

Pump into marked containers for reclamation or disposal. Absorb spill with inert material, (e.g. dry sand, vermiculite or earth), then place in a chemical waste container, if possible, neutralize residue on a dry basis with suitable alkali, such as lime or soda ash; then flush with water in accordance with applicable regulations. Releases should be reported, if required, to appropriate agencies. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800-424-8802 USA).

## SECTION 7 - HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Ambient

STORAGE: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances.

HANDLING: Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation.

## **SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

EXPOSURE LIMITS: ACGIH: CAS 5329-14-6: 1 mg/m<sup>3</sup> OSHA Final PEL's: NDA OSHA Vacated PEL's: NDA  
VENTILATION: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.  
EYE PROTECTION: Wear chemical safety goggles with a face shield to protect against skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.  
CLOTHING: Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered. CONTROL MEASURES: Use local mechanical exhaust capable of maintaining emissions, in the work area, below the ACGIH-TLV, OSHA-PEL or levels that may cause irritation.  
GLOVES: Wear appropriate chemical resistant gloves.  
PROTECTIVE MATERIAL TYPES: Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC), Tychem (R).  
RESPIRATOR: A NIOSH approved respirator with N94 (dust, fume, mist) filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or symptoms have been observed that are indicative of overexposure. A half facepiece air-purifying respirator may be used in concentrations up to 10X the acceptable exposure level and a full facepiece air-purifying respirator may be used in concentrations up to 50X the acceptable exposure level. Supplied air should be used when the level is expected to be above 50X the acceptable level, or when there is a potential for uncontrolled release. A respiratory protection program that meets 29CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

BOILING POINT: >200° F VAPOR PRESSURE: Same as water VAPOR DENSITY: Same as water  
EVAPORATION RATE: Slower than 1 SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.071 MELTING POINT: No Applicable  
SOLUBILITY: Liquid APPEARANCE: Clear, water thin ODOR: Odorless  
FLASH POINT: NA pH (1% Solution): 2.0 to 2.5

## **SECTION 10 - STABILITY AND REACTIVITY**

REACTIVITY: Stable at normal temperatures and pressure. CONDITIONS TO AVOID: Incompatible substances.  
INCOMPATIBILITIES: Strong oxidizers, nitric acid, chlorine. Solution is acidic and reacts violently with bases.  
INCOMPATIBILITY (MATERIALS TO AVOID): Bases, strong oxidizers, and chlorine.  
HAZARDOUS DECOMPOSITION: Sulphur dioxide and Sulphur trioxide gases, nitrogen oxides, ammonia in a fire. If water content is allowed to evaporate. POLYMERIZATION: Will not occur.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

<u>Components:</u>	<u>Sulfamic Acid</u>	<u>Hydroxyacetic Acid</u>
Eye contact	No contact	No contact
Skin Contact:	No contact	No contact
Oral Rat LD <sub>50</sub> :	3160 mg/kg	1938 mg/kg:
Dermal Rabbit LD <sub>50</sub> :	500 mg/24H SEV	No Data
Inhalation Rat LC <sub>50</sub> :	No Data Available	3.6 mg/L/4H (Male)
Human Data:	4%/50-I MLD	No Data Available
Other Toxicological Data:	No Data Available	No Data Available
Carcinogenicity:	No Data Available	No Data Available
Teratogenicity:	No Data Available	No Data Available
Mutagenicity:	No Data Available	No Data Available
Synergistic Products:	None Reported	None Reported
Target Organs:	Eyes, Skin, Mucus membranes & Lungs	Eyes, Skin, Mucus membranes
Aggravated by exposure:	Skin or Respiratory disorders	Skin or Respiratory disorders

## **SECTION 12 - ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE: Not tested. BIODEGRADATION: Not tested.  
BIOCONCENTRATION: Not tested. OTHER ECOLOGICAL INFORMATION: Not tested.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

RCRA Hazard Class (If discarded): D002. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. State and local disposal regulations may differ from federal disposal regulations. Empty containers may contain residues. Thoroughly empty container, then offer for recycling, reuse or disposal in accordance with federal, state and local requirements.

## **SECTION 14 - TRANSPORT INFORMATION**

DOT PROPER SHIPPING NAME: Corrosive Liquid N.O.S. HAZARD CLASS: Corrosive UN NUMBER: 1760  
PACKING GROUP: II PRIMARY LABEL: ORM-D SUBSIDIARY LABEL(S): None Required  
PRIMARY/SUBSIDIARY PLACARDS: None Required (in less than bulk)  
DOT Reportable Quantity (RQ): Not Applicable RQ for product: Not Applicable  
Marine Pollutant: No  
TDG PROPER SHIPPING NAME: Corrosive Liquid HAZARD CLASS: 8 UN NUMBER: 1760  
PACKING GROUP: II PRIMARY LABEL: Corrosive Liquid SUBSIDIARY LABEL(S) None Required  
PRIMARY/SUBSIDIARY PLACARDS: Corrosive  
TDG Reportable Quantity (RQ): NA TDG Schedule XII: Not Listed Regulated Limit (RL): Not Listed

RL for Product: Not applicable      Other Shipping Information: None

**SECTION 15 - REGULATORY INFORMATION**

COMPONENTS:                      Sulfamic Acid      Hydroxyacetic Acid

OSHA Target Organs: Skin and eyes

Carcinogenic Potential:

Regulated by ODHA:	No	No
Listed on NTP Report	No	No
Listed by ARC:	No	No
ARC Group:	Not Applicable	Not Applicable
ACGLH Appendix A:	Not Listed	Not Listed
A1 Confirmed Human	Not Applicable	Not Applicable
A2 Suspected Human:	Not Applicable	Not Applicable

U.S EPA Requirements:

Release Reporting CERCLA (40 CFR 302)

Listed Substance:	Not Listed	Not Listed
Reportable Quantity:	Not Applicable	Not Applicable
Category:	Not Applicable	Not Applicable
RCRA Waste No:	Not Applicable	Not Applicable
Unlisted Substance:	Not Applicable	Not Applicable
Reportable Quantity:	Not Applicable	Not Applicable
Characteristic:	Not Applicable	Not Applicable
RCRA Waste No:	D002	Not Listed

SARA TITLE III

Section 302 & 303 (40 CFR 355):

Listed Substance	Not Listed	Not Listed
Reportable Quantity:	Not Applicable	Not Applicable
Planning Threshold:	Not Applicable	Not Applicable

Section 311 & 312 (40 CFR 370):

Hazard Categories (Both Products): Fire: N    Sudden Release of Pressure: N    Reactive: N    Acute Health: Y    Chronic Health: N

Planning Threshold:      Not Listed                      Not Listed

Section 313 (40CFR 372):

Listed Toxic Chemical:	Not Listed	Not Listed
Reporting Threshold:	Not Applicable	Not Applicable

U.S. TSCA Status

Listed (40 CFR 710):                      No                                      No

State Regulations:

State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):

Carcinogen:	No	No
Reproductive Toxin:	No	No

Other Regulations:

State Right to Know Laws: CA, CT, FL, IL, LA, MA, ME, MN, NJ, PA, RI

Canadian Regulations:

Product Information:	-----	----
Controlled Product:	No	No
WHMIS Hazard Symbols:	Corrosive Liquid	Corrosive Liquid
WHMIS Class & Division:	E	E

Ingredient Information:

IDL Substances:	Not Listed	Not Listed
Domestic Substance List	No	No

**SECTION 16 - OTHER INFORMATION**

EPA Registration Number: Not Applicable                      Approved Product Uses: Not Applicable

HMIS Rating:    Health: 2                      Flammability: 0                      Reactivity: 0                      Personal Protective Index: B

This information relates only to the specific product designated and may not be valid for such product used in combination with any other products or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, expressed or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Joe Armer      Date: 05/5/2004  
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