


MATERIAL SAFETY DATA SHEET

TYSOL 101

NFPA 	HMIS <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">3</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">0</td></tr><tr><td>REACTIVITY</td><td style="text-align: center;">0</td></tr><tr><td>PERSONAL PROTECTION</td><td style="text-align: center;"> </td></tr></table>	HEALTH	3	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	
HEALTH	3								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION									

1. Product And Company Identification

Supplier ASAS / Tysol, Inc. 1561 Woodlane Drive PO Box 25098 Woodbury, MN 55125 USA Company Contact: Tom Ewing Telephone Number: 651-730-5639 FAX Number: 651-730-5107 E-Mail: tom@tysol.com Web Site: www.tysol.com	Manufacturer ASAS / Tysol, Inc. 1561 Woodlane Drive PO Box 25098 Woodbury, MN 55125 USA Company Contact: Tom Ewing Telephone Number: 651-730-5639 FAX Number: 651-730-5107 E-Mail: tom@tysol.com Web Site: www.tysol.com
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Supplier Emergency Contacts & Phone Number Medical Emergency Hotline: 1-800-228-5635	Manufacturer Emergency Contacts & Phone Number Medical Emergency Hotline: 1-800-228-5635
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Issue Date: 06/14/2007
Product Name: TYSOL 101
Chemical Name: Organic acid blend
CAS Number: Not Established
Chemical Family: Acid blend
Chemical Formula: Blend
EPA Registry Number: N.E.
MSDS Number: 55

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	<	Percent Of Total Weight
OXALIC ACID	144-62-7	<	10

3. Hazards Identification

Primary Routes(s) Of Entry
Ingestion Eye Contact, Skin Contact, Inhalation of spray

Eye Hazards
Severe irritation, or burns possible.

Skin Hazards
Irritation, or burns possible with prolonged contact

Ingestion Hazards
Irritation or burns of mouth, throat or stomach.

Inhalation Hazards
Causes respiratory tract irritation.

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3. Hazards Identification - Continued

Subchronic (Target Organ Effects)

Unknown; none expected beyond acute effects.

Chronic/Carcinogenicity Effects

The product and its ingredients have not been identified as carcinogen or probable carcinogen by NTP, IARC monographs or OSHA.

Conditions Aggravated By Exposure

Dermatitis and skin disorders.

4. First Aid Measures

Eye

In case of contact, immediately flush eyes with plenty of water. Get medical attention immediately.

Skin

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists. Remove contaminated clothing and shoes.

Ingestion

If victim is fully conscious, give one or two cups of water or milk to drink. Call a physician or a poison control center immediately. DO NOT try to neutralize acid with a strong base.

Inhalation

If inhaled, remove to fresh air. Call a physician or a poison control center immediately.

5. Fire Fighting Measures

Flash Point: none °F

Flammability Class: 0

Lower Explosive Limit: none

Upper Explosive Limit: none

Fire And Explosion Hazards

none

Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Neutralize spill area with soda ash or lime. Use appropriate personal protective equipment (PPE). Flush spill area with water.

7. Handling And Storage

Handling And Storage Precautions

Keep containers tightly closed. Keep out of reach of children. Wash thoroughly after handling.

Handling Precautions

Avoid contact with eyes. Avoid contact with skin and clothing. Do not taste or swallow. Use only with adequate personal protection. Wash thoroughly after handling.

Storage Precautions

Keep from freezing. Keep container tightly closed.

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7. Handling And Storage - Continued

Work/Hygienic Practices

Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate general and local exhaust ventilation.

Eye/Face Protection

Chemical splash goggles.

Skin Protection

Chemical-resistant gloves. Plastic or rubber apron.

Respiratory Protection

The level of respiratory protection needed should be based on the required protection factor after evaluating chemical exposures using appropriate industrial hygiene monitoring and/or OSHA guidance.

Ingredient(s) - Exposure Limits

OXALIC ACID			
OSHA PEL	1mg/m3	2mg/m3	STEL
ACGIH TLV	1mg/m3	2mg/m3	STEL

9. Physical And Chemical Properties

Appearance

Slightly hazy liquid

Odor

Mild odor

Chemical Type: Mixture

Physical State: Liquid

Melting Point: NA °F NA °C

Boiling Point: 212 °F 100 °C

Specific Gravity: 1.37

Molecular Weight: NA

Percent Volatiles: >50

Percent VOCs: none

Packing Density: NA

Vapor Pressure: NA

Vapor Density: NA

pH Factor: 2 At a Concentration Of 100

Solubility: complete

Viscosity: like water

Evaporation Rate: like water

10. Stability And Reactivity

Stability: Avoid strong oxidizing materials and strong bases.

Hazardous Polymerization: none

Conditions To Avoid (Stability)

Avoid incompatible materials.

Incompatible Materials

Contact with metal liberates (releases) poisonous gas. Avoid strong oxidizing and reducing agents. Strong alkaline materials, bleach, cyanides and sulfides may create toxic fumes.

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11. Toxicological Information
No Data Available...
12. Ecological Information
No Data Available...
13. Disposal Considerations
Refer to applicable federal, state, and local regulations prior to disposition of container and residual contents. RCRA Information Waste solutions may meet the RCRA Corrosive characteristic.
14. Transport Information
Proper Shipping Name Corrosive liquids, NOS (Oxalic Acid), 8, UN 1760, III ERG#60 Hazard Class Corrosive, 8 DOT Identification Number UN1760 DOT Shipping Label Corrosive liquids, NOS (Oxalic Acid), 8, UN 1760, III ERG#60 Freight Class 55
15. Regulatory Information
SARA Hazard Classes Acute Health Hazard SARA Section 313 Notification This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.
16. Other Information
NFPA Rating Health: 3 Fire: 0 Reactivity: 0 HMIS Rating Health: 3 Fire: 0 Reactivity: 0 Revision/Preparer Information MSDS Preparer: TM MSDS Preparer Phone Number: 651-730-4923 This MSDS Supersedes A Previous MSDS Dated: 02/14/2003
Disclaimer
The above information is to the best of our knowledge, current, accurate, and complete based on information reasonably available to us as of the date of preparation of this form. However, it is the user's responsibility to determine the safety, toxicity and suitability for his or her own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by us to the effects of

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Disclaimer - Continued

such use or on the safety or toxicity of this product. Nor do we assume any liability arising out of use by others of the product. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when exception conditions or circumstances exist or because of applicable laws or regulations.

ASAS / Tysol, Inc.