SAFETY DATA SHEET

Enviro-Flush TY-4060

Effective Date: October 20, 2014 Replaces Revision: MSDS Dated: 06/14/2007

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Enviro-Flush TY-4060
Chemical Name: Quaternary solution
Chemical Formula: Mixture
Common Name: Not Applicable
CAS Number: Not Established
Chemical Family: Quaternary solution
EPA Registry Number: Not Established
SDS Number: 139
Recommended Use: A FORMALDEHYDE-FREE, non-staining toilet activator formulated with a long lasting odor control fragrance for RV's, Campers and Boats.

Supplier
ASAS / TYSOL, Inc.
1561 Woodlane Drive
PO Box 25098
Woodbury, MN 55125 USA

Company Contact: Tom Ewing
Telephone Number: 651-730-4923
FAX: 651-730-5107
E-mail: Tom Ewing, tom@tysol.com
Web: www.tysol.com

Manufacturer
ASAS / TYSOL, Inc.
1561 Woodlane Drive
PO Box 25098
Woodbury, MN 55125 USA

Company Contact: Tom Ewing
Telephone Number: 651-730-4923
FAX: 651-730-5107
E-mail: Tom Ewing, tom@tysol.com
Web: www.tysol.com

24-HOUR EMERGENCY US TELEPHONE: 1-800-228-5635

2 HAZARDS IDENTIFICATION

Globally Harmonized System Pictogram(s):

GHS Classification:

Acute Toxicity / Oral – Category 4
Flammable Liquid – Category 4 (No GHS Pictogram for Category 4)
Eye Irritation – Category 2B (No GHS Pictogram for Category 2B)

GHS Signal Word: Warning

GHS Hazard Statement:

Harmful if swallowed
Combustible Liquid
Causes eye irritation

GHS Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P235: Keep cool.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330: If swallowed, rinse mouth.
P370 + P378: IN CASE OF FIRE: Use the appropriate extinguishing media for the surrounding fire.
P403: Store in a well ventilated place.
P501: Dispose of contents/container in accordance with all regulations.

NFPA / HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

National Fire Protection Association:

OSHA Hazardous Materials Identification System:

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent
ISOPROPANOL	67-63-0	<10
ALKYL (C12-C16) DIMETHYLBENZYLAMMONIUM CHLORIDES	8001-54-5	<5
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	<5

4 FIRST-AID MEASURES

Inhalation: If inhaled, remove to fresh air.

Skin Contact: In case of contact, immediately wash skin with soap and water, then flush with water.

Eye Contact: In case of contact, remove contact lenses, if worn, immediately flush eyes with plenty of water. If irritation persists, get medical attention.

Ingestion: Contact a physician or a poison control center immediately.

Most Important Symptoms: No further relevant information available.

Indication of Immediate Medical Attention: No further relevant information available.

5 FIRE-FIGHTING MEASURES

Flash Point: >150 °F
Flammability Class: Combustible
Lower Explosive Limit: Not Established
Upper Explosive Limit: Not Established

Specific Hazards: No further relevant information available.

Extinguishing Media: Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions: For any chemical fire, firefighters should wear self-contained breathing apparatus and full protective gear.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment, emergency procedures: Restrict access to area until completion of clean-up. Refer to protective measures listed in Sections 7 and 8.

Methods and Materials for containment and cleaning up: Flush spill area with water.

Special spill response procedures:
Contact Prosar:
US Telephone Number: 1-800-228-5635

7 HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes. Avoid contact with skin and clothing. Do not take internally. Wash thoroughly after handling.

Conditions for safe storage: Keep containers tightly closed. Keep out of reach of children. Keep from freezing.

Incompatible materials: None identified

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Components Exposure Limits:

ISOPROPANOL
OSHA PEL 400 ppm
ACGIH TLV 400 ppm
ALKYL (C12-C16) DIMETHYLBENZYLAMMONIUM CHLORIDES
OSHA PEL Not Established
ACGIH TLV Not Established

DIDECYL DIMETHYL AMMONIUM CHLORIDE
OSHA PEL Not Established
ACGIH TLV Not Established

Engineering Controls:

Ventilation and engineering measures: General room ventilation is normally adequate.

Respiratory protection: General room ventilation is normally adequate.

Skin Protection: Use chemical-resistant gloves to prevent staining of hand.

Eye/Face Protection: Safety glasses with side shields or goggles.

Other protective equipment: Eyewash stations in the work area.

General hygiene considerations: Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practices.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear blue liquid
Auto-ignition Temperature: Not Determined
Chemical Type: Mixture
Decomposition Temperature: Not Determined
Evaporation Rate: Not Determined
Flammability: Flammable
Flash Point: >150 °F
Initial Boiling Point / Boiling Range: 212 °F
Melting /Freezing Point: Not Determined
Molecular Weight: Not Applicable
Odor Threshold: Not Determined
Odor: Citrus aroma
Other Physical / Chemical Comments: No additional information
Packing Density: Not Applicable Not Determined
Partition Coefficient: Not Determined
Percent VOCs: <10
Percent Volatiles: >90
pH: 6 - 8 At a concentration of 100%
Physical State: Liquid
Solubility in Water: Complete
Specific Gravity / Relative Density: <1
Upper / Lower Flammability or Explosive Limits: Not Established
Vapor Density: Not Established
Vapor Pressure: Not Established
Viscosity: Like water

10 STABILITY AND REACTIVITY

Reactivity: Not determined
Chemical Stability: This material is expected to be stable under normal conditions of use.
Possibility of Hazardous Reaction and Conditions to Avoid: None determined
Incompatible Materials: Not Determined

Hazardous Decomposition Products: Not Determined
Hazardous Polymerization: Will not occur

11 TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:
Routes of entry – Inhalation: Yes
Routes of entry – Eyes: Yes
Routes of entry – Ingestion: Possible, but considered unlikely
Routes of entry – Skin absorption: Yes

Potential Health Effects:
Signs and symptoms of short term (acute) exposure:

Eye Hazards: May cause eye irritation.
Skin Hazards: May cause skin irritation.
Ingestion Hazards: Harmful if swallowed.
Inhalation Hazards: May causes respiratory tract irritation.

Potential Chronic Health Effects: As listed above.
Mutagenicity: Not expected to be mutagenic in humans.
Carcinogenicity: The product and its ingredients have not been identified as carcinogen or probable carcinogen by NTP, IARC monographs or OSHA.
Reproductive Toxicity: No data available.
Specific Target Organ Effects: No data available.
Toxicological Data: No data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Other Adverse Effects: No data available.

13 DISPOSAL CONSIDERATIONS

Handling for disposal: Handle in accordance with good industrial hygiene and safety practices. Refer to protective measures listed in sections 7 and 8.

Methods of disposal: Dispose in accordance with all applicable federal, state provincial and local regulations. Contact your local, state, provincial or federal environmental agencies for specific rules.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state federal environmental agencies.

14 TRANSPORTATION INFORMATION

This is a Department of Transportation non-hazardous material and is not regulated by the DOT.

US 49 CFR/DOT information: N/A
UN Number: N/A
UN Proper Shipping Name: Use Product Name
Transport Hazard Class: N/A
Packaging Group: N/A
DOT Shipping Label: N/A
Freight Class: 55
Environmental Hazard: No
Transport in Bulk: N/A
Special Precautions for User: None for non-hazardous material
National Fire Protection Association: 1 - 1 - 0

15 REGULATORY INFORMATION

US Federal Information:
TSCA Information: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SARA Hazard Classes: Non-flammable liquid.

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

Revision/Preparer Information:
ASAS / TYSOL, Inc.
SDS Preparer: JJM
SDS Preparer Phone Number: 651-730-4923

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 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.

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You are urged to obtain GHS Safety Data Sheets for all products you buy, process, use or distribute, and are encouraged to advise those who may come in contact with such products of the information contained therein.

To determine the applicability or effect of any law or regulation with respect to the product, you should consult with your legal advisor or the appropriate government agency. We will not provide advice on such matter, or be responsible for any injury or damage resulting for the use of the product described herein.

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