

MATERIAL SAFETY DATA SHEET

MSDS No: 17005

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (S) **COOLANT SYSTEM FLUSH**
PRODUCT No: **17005**
MANUFACTURER **LIFE AUTOMOTIVE PRODUCTS, INC.**
1210 MIDAS COVE STE 101
CORDOVA, TN 38018
EMERGENCY CONTACT: CHEMTREC
EMERGENCY PHONE NUMBER: 800-424-9300

PREPARATION DATE April 20, 2006
Prepared By Mike Profetto
Brief Description Organic based automotive radiator flush.

2. HAZARDOUS INGREDIENTS & EXPOSURE LIMITS

CHEMICAL NAME	CAS#	%	LIMIT VALUES
GLUCONIC ACID	526-95-4	1.00	N/A
SODIUM GLUCONATE	527-07-1	1.00	N/A

HAZARDOUS IDENTIFICATION

HMIS RATINGS: Health: 1, Flammability: 0, Reactivity: 0, Pers. Prot. Index B
NFPA RATINGS: Health: 1, Fire: 0, Reactivity: 0. Specific Hazard: None

3. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point N/A
Vapor Pressure (mm Hg.) N/A
Vapor Density (AIR = 1) >1.0
Solubility in Water Soluble
% Volatile/Volume N/A
Appearance and Odor Pinkn liquid
pH 8.5 to 10.5
Specific Gravity (H2O =1) 1.08
Miscellaneous Information
None

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Flammable Limits: N/A

Lower Explosive Limit (LEL): N/A

Upper Explosive Limit (UEL): N/A

Extinguishing Media

Carbon dioxide, dry chemical, foam and water fog.

Special Fire Fighting Procedures

Use SCBA apparatus operated in pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

None.

5. REACTIVITY DATA

Stable Yes

Hazardous Polymerization May Occur No

Conditions to Avoid

None

Incompatibility (Material to Avoid)

Strong acids.

Hazardous Decomposition or Byproducts

None.

6. HEALTH HAZARD DATA

Effects on Eyes

Eye irritant

Effects on Skin

Irritant.

Effects Due to Ingestion

Administer large quantities of water to conscious patient, pH of product is alkaline 8.5 to 10.5.

Effects Due to Inhalation

Not a likely source of entry, respiratory irritation and coughing.

First Aid Procedures for Eyes

If the product contacts the eyes, immediately wash the eyes with large quantities of room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. A follow up visit to an ophthalmologist should be made. Contact lenses should not be worn when working with this chemical.

First Aid Procedures for Skin

If the product contacts the skin, promptly wash the contaminated skin with soap and water for at least 15 minutes. Get medical attention as required.

First Aid Procedures for Ingestion

If this product is ingested and the person is conscious, administer large quantities of water. Get medical attention immediately.

First Aid Procedures for Inhalation

Move the exposed person to fresh air at once and call emergency medical care. If breathing has stopped, give artificial respiration. If breathing is

difficult, give humidified oxygen.

7. PRECAUTIONS FOR SAFE AND HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled

SMALL SPILLS: Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material.

LARGE SPILLS: Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

Waste Disposal Method

Dispose of product in accordance with local, state, and federal regulations.

Before attempting clean up, refer to other sections of MSDS for hazard warning information.

Precautions to Be Taken in Handling and Storing

See other sections of MSDS

Other Precautions

None

8. CONTROL MEASURES

Local Exhaust

Provide local ventilation to maintain exposure levels below any recommended limits.

Mechanical (General)

In confined spaces, mechanical ventilation may be required.

Special Ventilation

N/A

Other Ventilation

N/A

Protective Gloves

Use natural rubber or neoprene gloves as required.

Eye Protection

Use splash proof chemical, safety goggles or appropriate full face shield.

Other Protective Clothing or Equipment

If there is a possibility of exposure of an individual's body to the product, wear body covering clothes to avoid prolonged or repeated exposure.

Work/Hygienic Practices

Use normal hygiene practices.

Respiratory Protection (Specify Type)

Normally not required.

9. ADDITIONAL INFORMATION

Additional Information

SHIPPING INFORMATION (CFR 49 AND IMDG):

PROPER SHIPPING NAME Cleaning Compound, N.O.I.

DOT HAZARD CLASS None required

DOT UN NUMBER None required

IMDG SHIPPING NAME Non Hazardous Consumer Product

SARA TITLE III:

Section 302: None

Section 304: None

Section 311: None

Section 313: None

CERCLA:

Section 311 (b) (4) : Requires discharges of crude oil and petroleum products in any kind of form to waters must be reported to the National Response Center at (800) 424-8802.

DISCLAIMER: Information presented herein is believed to be factual, as it has been derived from the works and opinions of persons believed to be qualified experts. However, nothing contained in this information is to be taken as warranty or representation for which LIFE AUTOMOTIVE PRODUCTS, INC. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.