

1. Identification

Name of the product: Fume Activator Packet
Recommended use: Investigation
Use not recommended: Any use which results in skin contact.
Company: Lynn Peavey Company
10749 West 84th Terrace
Lenexa, Kansas 66214-3612
Telephone: 913-888-0600
Fax number: 913-495-6757
Product Information: 800-225-6499
Emergency Number: Chemtrec 800-424-9300
Publication Date: June 27, 2014
SDS Code: LP HS
Product numbers: 06622
CPR STATEMENT: This product has been classified in accordance with the criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required.

2. Hazard(s) identification

Emergency overview

OSHA Hazards: Eye Irritant

Signal word: None (Hazards do not reach threshold required for least severe category.)

Pictogram: None (Hazards do not reach threshold required for least severe category.)

H315 Causes skin irritation

H320 Causes eye irritation

P281 Use personal protective equipment as required

Keep out of waterways.

3. Composition / Information on ingredients

Chemical identity:	2-Hydroxy-1,2,3-propanetricarboxylic acid	10%
Common name:	Citric acid , fruit acid	
Numbers of identity:	CAS 77-92-9	
Chemical identity:	Water	90%
Common name:	Water	
Numbers of identity:	CAS# 7732-18-5	
Chemical identity:	FD&C Red #40	<0.1%
Common name:	None	
Numbers of identity:	CAS# 25956-17-6	

4. First-aid measures

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P302+352 IF ON SKIN: Wash with soap and water

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water.

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do; continue rinsing.

5. Firefighting measures

Suitable extinguishing media : Product is not flammable.

Use equipment appropriate for the main cause of a fire.

Precautions:

Special protective equipment for firefighters: No special protective equipment required.

Flash point: Does not flash.

Autoignition temperature: Does not ignite.

Specific hazards in case of fire: Sulfur oxides produced if product is dried and burned.

Special protective equipment and precaution for fire fighters: None required.

6. Accidental release measures

Personal precautions:

Spill may be slippery.

Environmental precautions:

Prevent spills from entering storm sewers or drains and contact with soil.

Methods and materials for containment and cleaning up:

Vacuum or mop up for possible use or reclaim. Common industrial absorbents may be used.

Dispose as non hazardous waste.

7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged or repeated skin contact and breathing mists/vapors.

Conditions for safe storage, including incompatibilities:

Standard safe storage conditions are appropriate: avoid package damage and extremes in temperature: below 32° and above 120°F.

8. Exposure controls / personal protection

Information on the system design:

Product is intended for external use only. Stay up wind, out of any spray developed.

Exposure Limits:

Reference 29CFR 1910.1000 Table Z-1

Component Name (CAS)

TWA

STEL

ppm mg/m3

ppm mg/m3

Citric acid CAS 77-92-9

NA NA

NA NA

FD&C Red #40 CAS# 25956-17-6

NA NA

NA NA

NE= Not Established

Personal protective equipment

Respiratory protection: No requirement anticipated.

Hand protection: Rubber gloves.

Eye protection: Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hygiene measures

Wash hands and face before breaks and immediately after handling the product.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance: Clear red liquid

Odor: Nil

Odor threshold: Not available

pH-value: Acid

Melting point: Not available

Freezing Point: Not available

Initial boiling point: Approximately 100°C.

Flash point: Does not flash.

Evaporation rate: Not available

Flammability (solid, gas): Not applicable

Explosion limits: Not explosive

Vapor pressure: (highest partial vapor pressure) at 20°C: Not available

Vapor density: Not available

Relative density (water=1.00): Not available

9. Physical and chemical properties (continued)

Solubility: Totally soluble in water at 20°C

Partition coefficient: Log Kow = Not applicable to mixture.

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Like water

10. Stability and reactivity

Chemical stability: No decomposition, if used according to specifications.

Possibility of hazardous reactions: Hydrogen may be formed by contact with metals listed below.

Conditions to avoid: No dangerous conditions known.

Materials to avoid: Avoid concentrated contact with aluminum tin, lead or zinc coated metals.

Carbon dioxide formed upon contact with carbonates.

Hazardous decomposition products: None are known. Also see Section 5.

11. Toxicological information

Acute Toxicity: No information available for finished product.

Test	Citric acid	FD&C Red #40
Oral Toxicity LD 50 (Rats)	5400 mg/kg (OECD 401)	>10000 mg/kg
Dermal Toxicity LD 50 (Rats)	>2000 mg/kg (OECD 402)	>10000 mg/kg
Inhalation Toxicity, Vapor	No data	No data
Eye Irritation (Rabbit)	Irritating (OECD 405)	No data
Dermal Irritation (Rabbit)	Mild (OECD 404)	No data

Likely/ possible routes of exposure: Ingestion, skin and eye contact.

Skin: The product is not expected to be toxic by skin absorption.

Oral: The product is not expected to be toxic by ingestion.

Inhalation: The product is not expected to be toxic by inhalation.

H305 May be harmful if swallowed and enters airways

Irritation

H315 Causes skin irritation

H320 Causes eye irritation

Sensitization: Prolonged or repeated exposure may cause allergic reactions in sensitive individuals.

Chronic toxicity: Prolonged skin contact may defat the skin and produce dermatitis.

Carcinogenicity: Not listed by NTP, IARC, OSHA or ACGIH as a suspect or potential carcinogen.

Summary Comments: Product may have a drying effect on the skin; frequent or prolonged contact may cause flaking or cracking of the skin.

12. Ecological information

Persistence and degradability:

This product is expected to be inherently biodegradable.

Bio-accumulative potential: There is no evidence to suggest bioaccumulation will occur.

Mobility: Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

Ecotoxicity: The product has not been tested. The following data is reported for citric acid:

Toxicity Fish LC50 - *Leuciscus idus melanotus* - 440 mg/l - 48 h

Toxicity to daphnia and static test - *Daphnia magna* (Water flea) - 1,535 mg/l - 24 h

FD&C Red #40 No data

13. Disposal considerations

Product as made has the characteristic of corrosivity because of low pH and qualifies as "Unlisted Hazardous Waste D002", RQ 100#.

Dispose in accordance with local, state and federal regulations.

14. Transport information

Domestic transport: Not classified as dangerous goods under transport regulations.

Sea transport (IMDG): Not classified as dangerous goods under transport regulations.

Air transport (IATA/CAO): Not classified as dangerous goods under transport regulations.

15. Regulatory information

Inventory Status:

All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

U.S. Regulations:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES:

None

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.

Chemical Name	CAS Number	Concentration
None	Not applicable	Not applicable

The following product components are cited on the lists below:

Chemical Name	CAS Number	List Citations
Citric acid	CAS 77-92-9	PA, NJ

California Prop. 65 chemicals: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

MSDS Preparation date: June 16, 2014

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	No	No	No	
Delayed	No	No	XXX	XXX	
HMIS Hazard ratings: Health 1 Fire 0 Instability 0 Other B (Goggles, gloves)					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

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MSDS's found from ingredient suppliers do not provide sufficient information for complete categorization of the hazards as of the date of preparation of this document. Expert opinion and judgment has been used where deemed necessary and appropriate.

Note: The information in this SDS was obtained from current reputable and competent sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.