

SAFETY DATA SHEET

OSHA Hazard Communication Standard 29CFR 1910.1200. Prepared to GHS

1. Product and Company Identification

·**Product identifier**

·**Trade name:** Tree Safe

·**Article number:** Flame Safe Tree Safe

·**Relevant Identified uses of the substance or mixture and uses advised against**

·**Product description**

Fire retardant spray coating for Christmas trees, wreaths, dry grass, dry brush, wild fire prevention

·**Details of the supplier of the safety data sheet**

·**Manufacturer/Supplier:**

Flame Safe Chemical Corporation

2653 Warfield Avenue

Fort Worth, Texas 76106

Office: (817) 740-9197

Fax: (817) 740-9199

Emergency telephone number: (817-) 658-9197

2. Hazards Identification

·**Classification of the substance or mixture**

The product is not classified according to the Globally Harmonized System (GHS).

·**Label elements**

·**GHS label elements** Void

·**Hazard pictograms** Void

·**Signal word** Void

·**Hazard statements** Void

·**Precautionary statements** Precautionary statements

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

·**NFPA Ratings (scale 0-4)**

Health = 0

Fire = 0

Reactivity = 0

·**HMIS - ratings (scale 0-4)**

Health	2	Health = 0
Fire	0	Fire = 0
Reactivity	0	Reactivity = 0

·**Other Hazards**

·**Results of PBT and vPvB assessment**

·**PBT:** Not applicable

·**vPvB:** Not applicable

3. Composition/information on ingredients

461-58-5 cyanoguanidine	< 10 %
7732-18-5 water, distilled, conductivity or of similar purity	50- 70%

·**Chemical characterization:** Mixtures

·**Description:** Mixture of the substances listed below with nonhazardous additions

·**Dangerous components:**

7664-38-2 phosphoric acid 85% <10%

57-13-6 urea <2%

4. First aid measures

·**Description of first aid measure**

·**General information:**

Phosphoric acid vapors may cause irritation and inflammation of eyes and mucous membranes of the upper respiratory tract. Repeated skin contact may cause skin irritation, dermatitis or other allergic reactions.

·**After Inhalation:**

Remove to fresh air immediately. Give oxygen or artificial respiration if necessary. Seek medical attention if necessary. Use adequate ventilation

·**After Skin Contact:**

Remove contaminated clothing. Promptly wash skin thoroughly with large quantities of soap and water for at least 5 minutes. If irritation persists, consult a physician. Launder contaminated clothing before use.

·**After eye contact:**

Rinse immediately with water. Remove contact lenses, then flush eyes immediately with running water for at least 15 minutes. Examination by a Physician is imperative.

·**After swallowing:**

Induce vomiting immediately by giving a tablespoon of salt in a glass of warm water and repeat until fluid is clear. Call a physician. Never give anything by mouth to an unconscious person

·**Most Important symptoms and effect, both acute and delayed**

Severe exposure may cause nausea, pulmonary irritation and loss of consciousness. May be fatal if swallowed. Prolonged contact with skin may cause reddening of affected area. Direct contact with the eyes causes redness, pain, conjunctivitis and with severe exposure possible corneal destruction. Vapors may cause pulmonary irritation and redness of the eyes.

·**Indication of any immediate medical attention and special treatment needed**

5. Firefighting measures

·**Extinguishing media**

·**Suitable extinguishing agents:**

Not combustible. Use water spray, dry chemical, alcohol foam, carbon dioxide or other agents as appropriate for materials in surrounding fire.

·**Special hazards arising from the substance or mixture**

May liberate hydrogen gas upon contact with some non ferrous metals. Protect personnel against mist, vapor or splashes.

·**Advice for firefighters:**

Use self contained breathing apparatus and protection for skin. Use water spray to keep storage containers cool. Use safety equipment and clothing which is suitable for phosphoric acid and materials in surrounding fire.

·**Protective equipment:**

Use self contained breathing apparatus and protection for skin. Use water spray to keep storage containers cool. Use safety equipment and clothing which is suitable for phosphoric acid and materials in surrounding fire.

6. Accidental release measures

·**Personal precaution, protective equipment and emergency procedures**

Not required.

·Environmental precautions:

Do not allow to enter sewers/surface or ground water. Dispose of waste in compliance with all Federal, State and local regulation.

·Methods and material for containment and cleaning up:

Confine spilled material and absorb on sand, sawdust, earth, or other available solids. Sweep and place in a suitable container.

·Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

7. Handling and storage

·Precautions for safe handling

- Keep away from eyes
- Avoid contact with skin or clothing
- Use only with adequate ventilation
- Avoid breathing mist or vapor
- Wash skin that contacted material with soap and water
- Do NOT use or store near heat or open flame

·Information about protection against explosions and fires:

This product is stable, non combustible.

·Conditions for safe storage, including any incompatibilities

May liberate hydrogen gas after long term storage of liquid in metal containers. Store liquid only in stainless steel, plastic or glass containers.

· **Storage:** Stable at normal storage conditions.

· **Requirements to be met by storerooms and receptacles:** No special requirements

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None

· **Specific end use(s):** No further relevant information.

8. Exposure controls/ personal protection

· **Additional information about design or technical systems:** No further data; see item 7

·Control parameters

· **Components with limit values that require monitoring at the workplace:**

7664-38-2 phosphoric acid 85%

PEL 1mg/m³

REL Short-term value: 3mg/m³

Long-term value: 1mg/m³

TLV Short-term value: 3mg/m³

Long-term value: 1mg/m³

57-13-6 urea

WEEL 10 mg/m³

· **Additional information:**

·Exposure controls

· **Personal protective equipment:**

·General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed

·Breathing equipment:

Use NIOSH/MSHA approved respirator suitable for use with inorganic acids and organic vapors if proper ventilation can not be provided.

·Protection of hands:

Wear impervious gloves as necessary to avoid contact, rubber, or neoprene

·Material of gloves:

Wear impervious gloves as necessary to avoid contact, rubber, or neoprene

·Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

·Eye Protection:

Protective glasses or goggles.

9. Physical and chemical properties

·Information on basic physical and chemical properties

·General Information

·Appearance:

Form: Liquid

Color: Cloudy

·Odor: Yes

·Odor threshold: Moderate

pH-value: 5.0 - 5.2

Change in condition

Melting point: N/A

Boiling point: 208°F to 212°F

Flash point: Non Flammable

Flammability (solid, gaseous): Not applicable

·Ignition temperature:

Decomposition temperature: Not determined

·Auto igniting: Product is not self igniting

·Danger of explosion: Product does not present an explosion hazard

·Explosion limits:

Lower: Not applicable

Upper: Not applicable

·Vapor pressure at 20°C (68°F): 17mm Hg

·Density: Not determined

·Relative density Not determined

·Vapor density Not determined

·Evaporation rate Not determined

·Solubility in water Soluble in liquid state

·Partition coefficient (n-octanol/water): Not applicable

·Viscosity:

Dynamic: Not determined

Kinematic: Not determined

·Solvent content:

Organic solvents: 0.0%

Water: 69%

·Solid content: 31%

·Other information: No further relevant information available

10. Stability and reactivity

- Thermal decomposition and conditions to be avoided:** No decomposition if used according to specifications
- Possibility of hazardous reactions:** No dangerous reaction known
- Conditions to avoid:** Stable at normal storage conditions.
- Incompatible materials:** Strong oxidizers, alkalis or acids. Slowly reacts with some non ferrous metals causing hydrogen gas and water vapors to be emitted
- Hazardous decomposition products:** No dangerous decomposition products known

11. Toxicological information

- Information on toxicological effects**
- Acute toxicity:** None
- Primary irritant effect:**
 - On the skin:** Moderate
 - On the eye:** Moderate
- Sensitization:** No sensitizing effects known
- Additional toxicological information:** The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specification, the product does not have any harmful effects according to our experience and the information provided in this document
- Carcinogenic categories:**
 - IARC (International Agency for Research on Cancer)**
 - NTP (National Toxicology Program)**

12. Ecological Information

- Toxicity**
- Aquatic toxicity:** No further relevant information available
- Persistence and degradability:** No further relevant information available
- Bioaccumulative potential:** No further relevant information available
- Mobility in soil:** No further relevant information available
- Additional ecological information:**
- General notes:**
 - Water hazard class 1 (Self-assessment): slightly hazardous for water
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage systems
- Results of PBT and vPvB assessment**
- PBT:** Not applicable
- vPvB:** Not applicable
- Other adverse effects:** No further relevant information available

13. Disposal considerations

- Waste treatment methods**
- Recommendation:** Smaller quantities can be disposed of with household waste
- Uncleaned packaging(s):**
- Recommendation:** Disposal must be made according to official regulations

14. Transport Information

- UN-Number**
- DOT,ADR,ADN,IMDG,IATA** Void

·UN proper shipping name	None
·DOT,ADR,ADN,IMDG,IATA	Void
·Transport hazard class(es)	
·DOT,ADR,ADN,IMDG,IATA	
·Class	Void
·Packing group	
·DOT,ADR,IMDG,IATA	Void
·Environmental hazards:	
·Marine pollutant	No
·Special precautions for user	Not applicable
·Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	Not applicalbe
·UN "Model Regulation":	-

15. Regulatory information

- Safety, health and environmental regulation/legislation specific for the substance or mixture
- Sara
- Section 355(extremely hazardous substances):
- Section 313 (Specific toxic chemical listings):
7664-38-2 phosphoric acid 85%
- TSCA (Toxic Substances Control Act):
7664-38-2 phosphoric acid 85%
57-13-6 urea
- Proposition 65
- Chemical known to cause cancer: None of the ingredients is listed
- Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed
- Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed
- Chemicals known to cause developmental toxicity: None of the ingredients is listed
- Carcinogenic categories
- EPA (Environmental Protection Agency) None of the ingredients is listed
- TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed
- NIOSH-Ca(National Institute for Occupational Safety and Health) None of the ingredients is listed
- OSHA-CA(occupational Safety & Health Administration) None of the ingredients is listed
- GHS label elements Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

·Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation

IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Agency
HMIS: Hazardous Materials Identification System (USA)

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