



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Vigor 53™ Systemic
Synonym: None
Product Use: Plant fertilizer for tree injection only
Product Type: Liquid
Company Name: J. J. MAUGET COMPANY
Company Address: 129 Growth Center Dr NE #A
Floyd, VA 24091
Tel: 626-444-1057
Emergency Contact: INFOTRAC 1-800-535-5053
911

2. HAZARDS IDENTIFICATION



Classification:

Eye Irritation (Acute): GHS Category 2
Skin Irritation (Acute): GHS Category 2
Oral Toxicity (Acute): GHS Category 4
Inhalation Toxicity (Acute): GHS Category 2

Signal Word:

WARNING

Hazard Statements:

H302 – Harmful if swallowed
H333 – May be harmful if swallowed or inhaled
H315 – Causes skin irritation
H320 – Causes eye irritation

Precautionary Statements - Prevention:

P264 – Wash hands thoroughly after handling
P270 – Do not eat, drink, or smoke when using this product
P280 – Wear protective gloves

Precautionary Statements - Response:

P301+P317 - IF SWALLOWED: Get medical help
P330 – Rinse mouth
P304+P317 – IF INHALED: Get medical help
P302+P352 – IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P317 – If skin irritation occurs: Get medical help
P362+P364 – Take off contaminated clothing and wash before reuse

Precautionary Statements - Disposal:

P501 – Dispose of contents/container in accordance with local, state, and federal regulations

Emergency Overview

May cause irritation to the eyes, skin, and respiratory tract. May be harmful if swallowed, inhaled, or absorbed through the skin. Combustible liquid and vapor. Hygroscopic.

HMIS Rating:

Health – 2 Flammability – 1 Physical Hazard – 1 PPE – User supplied
NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight-%</u>
Phosphorous acid	10294-56-1	Proprietary
Potassium hydroxide	1310-58-3	Proprietary

Ingredients not listed are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

4. FIRST AID MEASURES

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person rinse mouth with water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

SKIN CONTACT: Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

EYE CONTACT: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Most important symptoms and effects

Symptoms Irritating to eyes, skin, and respiratory system. Harmful if swallowed. Ingestions may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

5. FIRE FIGHTING MEASURES

This is not a flammable material.

Flash Point: Not available

Auto-ignition Temperature: Not available

Flammability Limits: Not available

Special Fire Fighting Procedures: As in any fire, fire-fighters should wear approved self-contained breathing apparatus and full protective gear. Suitable for most extinguishing media.

Hazardous Decomposition Materials (Under Fire Conditions): Non-determined.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected material should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand, or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. See Section 13.

Other Information: Large spills may be reportable to the state and/or local regulatory agencies.

7. HANDLING AND STORAGE

Handling: Avoid breathing vapor or spray mist. Avoid contact with eyes, skin or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: This product should be stored in its original container under cover in a cool, dry place out of reach of children and out of direct sunlight. Store away from combustible materials, herbicides, and fungicides. Do not use or store near open flame and heat source. Do not contaminate water, food or feed by storage or disposal. If transfer to another container becomes necessary, ensure that the container is clearly labelled, the container is a type suitable for the product, and is clean and free of other materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless
Odor	Slight odor
pH	6.3
Melting point/freezing point	Not available
Boiling point	100°C/212°F
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.46 g/cc
Solubility	Soluble
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Non-explosive
Oxidizing properties	Not available

10. STABILITY AND REACTIVITY

Stability: Stable under normal handling and storage conditions.

Conditions to avoid: Excessive heat. Do not store near heat or flame.

Materials to avoid:

1. Strong bases
2. Strong acids
3. Strong oxidizing agents – may decompose
4. Strong reducing agents – may decompose
5. Metals – is corrosive to most
6. Water reactive materials
7. Products containing copper

Hazardous decomposition products: Phosphorous oxides, phosphine

11. TOXICOLOGICAL INFORMATION

Toxicological Data: Data from laboratory studies on this product are summarized below:

Oral:	LD50 > 5000 mg/kg (in rats)
Dermal:	LD50 > 5000 mg/kg (in rats)
Inhalation:	LC50 > 2.05 mg/L (in rats)
Eye Irritation:	Classified as minimally irritating to the eye (in rabbits)
Skin Irritation:	Classified as non-irritating to the skin (in rabbits)
Skin Sensitization:	Not considered to be a contact dermal sensitizer at concentrations less than or equal to 50% (in mice)

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Soil Adsorption / Mobility: Not available

13. DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR Part 261. For disposal of wastes generated during use or if the material as supplied becomes a waste, dispose as directed on the label. Do not reuse container.

Observe all federal, state, and local laws concerning health and environment.

14. TRANSPORT INFORMATION

UN number: Not available

UN proper shipping name: Not available

Transport hazard class(es): Not available

Packing group: Not available

Environmental hazards: Not available

Special precautions for user: Not available

15. REGULATORY INFORMATION

OSHA: This product is considered hazardous under the criteria of the OSHA Hazard Communication Standard 29 CFR Part 1910.1200.

CERCLA: Potassium hydroxide (CAS No. 1310-58-3) is listed as a CERCLA Hazardous Substance (40 CFR 302.4).

RCRA: It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

California Addendum (Proposition 65) Safe Drinking Water and Toxic Enforcement Act of 1986.

This product contains no chemicals known to the State of California to cause cancer.

This product contains no chemical, known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.