

SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** TYPHOON®
- Other means of identification:** Not applicable.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Relevant identified uses:** 25(b) Minimal Risk Fungicide, Insecticide.
- Uses advised against:** None known.
- 1.3 Name, U.S. address, and U.S. telephone number of the manufacturer, importer, or other responsible party:**
 Oro Agri, Inc.
 2788 S. Maple Ave.
 Fresno, CA 93725
 Telephone Number: +1(559) 442-4996
 Email: sds-na@rovensanext.com
- 1.4 Emergency phone number:**
 Incident, Spill, Leak, Fire, Exposure or Accident
 Call CHEMTREC Day or Night
 Within USA and Canada: +1(800) 424-9300
 Outside USA: +1(703) 741-5970.

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- 29 CFR 1910.1200:**
 While this product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
- 2.2 Label elements:**
- 29 CFR 1910.1200:**
- Signal word:** Not required.
- Pictograms:** Not required.
- Hazard statements:**
 Not classified as hazard.
- Precautionary statements – prevention:**
 Wear eye protection and chemical resistant protective gloves. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
- Environmental hazards:**
 Do not contaminate water sources by cleaning of equipment or disposal of wastewaters. Avoid release to the environment.
- Precautionary statements – storage:**
 Store in a well-ventilated place.
- Precautionary statements – disposal:**
 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Hazards not otherwise classified (HNOC):**
 None known.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
 Non-applicable.

- 3.2 Mixtures:**
Mixture description:

Identification	Chemical name	Concentration
	Proprietary mixture¹	50 – 70 %
CAS: 24634-61-5	Potassium Sorbate	30 - 50 %

Composition comments: ¹Components, CAS numbers and/or concentrations not listed are either non-hazardous, below reporting limits or have been withheld as trade secrets.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness, place person in the recovery position. Never give anything by mouth.

By inhalation:

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

By skin contact:

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

By eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

By ingestion/aspiration:

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Most important symptoms/effects, acute and delayed:

None known.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

In case of burns and frostbite: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Specific hazards arising from the chemical:

In case of insufficient ventilation and/or in use, product may form flammable/explosive vapor air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. In case of fire and/or explosion do not breathe fumes.

5.3 Special protective equipment and precautions for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions:

In case of fire and/or explosion, do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated water separately. Fight fire with normal precautions from a reasonable distance.

Specific methods:

Use standard firefighting procedures and consider the hazards of other involved materials.

5.4 General fire hazards:

None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Remove persons to safety. Ventilate affected area. Wear suitable protective clothing. Wear breathing apparatus if exposed to vapors/mist/spray. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear suitable protective clothing.

For emergency responders:

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and materials for containment and cleaning up:

Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

6.4 Reference to other sections:

See section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. Avoid contact with eyes. Wear personal protective equipment/face protection. Avoid release to the environment. Employ good industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities:

Keep away from heat, sparks, and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3 Specific end use(s):

Keep in a cool, well-ventilated place. Protect from sunlight. Store in a dry place. Store in a closed container. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Keep away from clothing as well as other incompatible materials. Incompatible materials: see section 10.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

There are no occupational exposure limits for the substances contained in the product.

8.2 Biological limit values:

No biological exposure limits noted for the ingredient(s).

8.3 Appropriate engineering controls:

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

8.4 Individual protection measures, such as personal protective equipment:

Eye/face protection:

Wear safety glasses with side shields (or goggles) and a face shield. Wear face shield if there is risk of splashing.

Skin protection:

Hand protection:

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other:

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

Thermal hazards:

Wear appropriate thermal protective clothing when necessary.

Environmental exposure controls:

Use appropriate container to avoid environmental contamination. Keep away from drains, surface, and ground water.

General hygiene considerations:

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state:	Liquid
Color:	Amber
Odor:	Earthy
Odor threshold:	Data not available

Volatility:

Boiling point at atmospheric pressure:	Data not available
Vapor pressure:	Data not available
Evaporation rate:	Data not available

Product description:

Density:	1.12 - 1.18 g/mL
Relative density:	Data not available
Dynamic viscosity:	0 - 20 cP
Kinematic viscosity:	Data not available
pH:	8.5 – 9.5
Vapor density:	Data not available
Partition coefficient n-octanol/water:	Data not available
Solubility in water:	Complete
Solubility properties:	Data not available
Decomposition temperature:	Data not available
Melting point/freezing point:	Data not available

Flammability:

Flash Point:	>93 °C (>199.4 °F) - Pensky-Martens Closed Cup
Flammability (solid, gas):	Data not available
Autoignition temperature:	Data not available
Lower flammability limit:	Data not available
Upper flammability limit:	Data not available

Particle characteristics:

Median equivalent diameter:	Data not available
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9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Data not available
Oxidizing properties:	Data not available
Corrosive to metals:	Data not available
Heat of combustion:	Data not available
Aerosols-total percentage (by mass) of flammable components:	Data not available

Other safety characteristics:

Surface tension:	Data not available
Refraction index:	Data not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability:

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions:

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid:

Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5 Incompatible materials:

Strong acids. Alkalis or strong bases.

10.6 Hazardous decomposition products:

Thermal decomposition of this product can generate carbon monoxide, carbon dioxide, sulfur oxides, and sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:****Information on likely routes of exposure:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

Ingestion (acute effect):

May cause discomfort if swallowed.

Inhalation (acute effect):

Prolonged inhalation may be harmful.

Contact with the skin (acute effect):

Prolonged contact with skin may be harmful.

Contact with the eyes (acute effect):

Not expected to cause eye irritation.

11.2 Symptoms related to the physical, chemical, and toxicological characteristics:

None known.

Information on toxicological effects:**Acute toxicity:**

Not expected to be acutely toxic.

Product-specific toxicological information: TYPHOON (CAS Mixture)

Exposure route	Endpoint	Value	Species	Method
<i>Acute toxicity</i>				
Oral	LD50	5000 mg/kg	Rat	OECD 423
Dermal	LD50	>2000 mg/kg	Rat	OECD 402
Inhalation: dust/mist	LC50	>7.131 mg/L (4 h)	Rat	OECD 403

Skin corrosion/irritation:

Not a skin irritant.

Skin contact TYPHOON

OECD 404

Result: Non-Irritating

Species: Rabbit.

Eye damage/irritation:

Not an eye irritant.

Eye contact TYPHOON

OECD 405

Result: Non-Irritating.

Species: Rabbit.

Skin sensitization:

Not a skin sensitizer.

Sensitization TYPHOON

OECD 406

Result: Non-Sensitizer.

Species: Guinea pig.

Respiratory sensitization:

Not a respiratory sensitizer.

Germ cell mutagenicity:

No data available to indicate product or any components present greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity:

This product is not considered to be a carcinogen by IARC, NTP, or OSHA.

- **International Agency for Research on Cancer (IARC) Monographs on the Evaluation of Carcinogenic Risks to Humans**
Not listed.
- **National Toxicology Program (NTP) Report on Carcinogens**
Not listed.
- **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**
Not listed.

Reproductive toxicity:

This product is not expected to cause reproductive or development effects.

Specific target organ toxicity (STOT):

-Specific target organ toxicity - single exposure

Not classified.

-Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard:

Not an aspiration hazard.

Chronic effects:

Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

The experimental information related to the eco-toxicological properties of the product is not classified for environmental hazards under 29 CFR 1910.1200. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2 Persistence and degradability:

No data is available on the degradability of this product.

12.3 Bioaccumulative potential:

Data not available.

12.4 Mobility in soil:

Data not available.

12.5 Results of PBT and vPvB assessment:

Data not available.

12.6 Endocrine disrupting properties:

Data not available.

12.7 Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations:

Dispose in accordance with all applicable regulations.

Hazardous waste code:

The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.

Waste from residues/unused products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

Contaminated packaging:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

- 14.1 Transport of dangerous goods by land (DOT):** Not regulated as dangerous goods.
- 14.2 Transport of dangerous goods by sea (IMDG):** Not regulated as dangerous goods.
- 14.3 Transport of dangerous goods by air (IATA/ICAO):** Not regulated as dangerous goods.
- 14.4 Transport in bulk (according to IMO instruments):** Non-applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product. Take into consideration other applicable federal, state, and local laws and local regulations.

California Proposition 65:

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16: OTHER INFORMATION

Revision Date: 5/28/2025

Version Number: 1

Key literature references and sources for data:

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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End of SDS