

Safety Data Sheet

Section 1
Identification of the Substance and of the Supplier

1.1 Product Identifier

Product Name/Identification:	TPH 3404
Synonyms:	Anionic water-soluble polymer
Product Code:	Not applicable
Formula:	Not applicable

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advises Against

Relevant Identified Uses:	Process aid for industrial applications
Uses Advised Against:	None known

1.3 Details of the Supplier of the SDS

Manufacturer/Supplier:	Tons Per Hour, Inc.
Street Address:	8717 Humble Westfield Rd.
City, State and Zip Code:	Humble, TX 77338
Customer Service Telephone:	916-663-3800

1.4 Emergency Telephone Number

Emergency Phone Number:	916-663-3800
Hours Available:	24/7

Section 2
Hazards Identification

2.1 Classification of the Substance

Aqueous solutions or powders that become wet render surfaces extremely slippery

Section 3
Composition/Information on Ingredients

Identification of the preparation: Anionic water-soluble polymer

Section 4
First Aid Measures

4.1 Description of First Aid Measures

Inhalation:	Move to fresh air.
Skin Contact:	Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.
Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.
Ingestion:	The product is not considered toxic based on studies on laboratory animals.

4.2 Indication of Any Immediate Medical Attention and Special Treatment Needed

Seek first aid or call a doctor or Poison Control Center if contact with eyes occurs and irritation remains after rinsing.

Section 5
Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media:	Dry chemical, carbon dioxide (CO ₂), water spray
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5.2 Special Hazards Arising From the Substance or Mixture

Hazardous Combustion Products:	None known.
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5.3 Advice for Firefighters

Special Protective Equipment and Precautions for Firefighters:	Aqueous solutions or powders that become wet render surfaces extremely slippery, no special equipment required.
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Section 6 Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions/Protective Equipment:	No special precautions required
Emergency procedures:	Use scooping, water spraying/flushing/misting or ventilated vacuum cleaning systems to clean up spills. Do not use pressurized air.

6.2 Environmental precautions

Environmental precautions:	Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
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6.3 Methods and Material for Containment and Cleaning Up

Methods and materials for containment and cleaning up:	Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.
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See Sections 8 and 13 for additional information on exposure controls and disposal.

Section 7 Handling and Storage

7.1 Precautions for Safe Handling

Safe handling advice: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Store in keep in a dry, cool place (0 – 35 °C).

Section 8

Exposure Controls/Personal Protection

8.1 Control Parameters

Contains no substances with occupational exposure limit values. These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

8.2 Exposure Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

8.2.1 Engineering Controls

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

8.2.2 Personal Protective Equipment (PPE)

Respiratory protection:	Dust safety masks are recommended where concentration of total dust is more than 10 mg/m ³ .
Eye and face protection:	Safety glasses with side-shields. Do not wear contact lenses.
Hand and skin protection:	Rubber gloves.

Section 9

Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Property: Value	Property: Value
Appearance (physical state, color, etc.): Granular Solid, white	Upper/lower flammability or explosive limits: Not determined
Odor: None	Vapor Pressure (Pa): Not determined
Odor threshold: None	Vapor Density: Not determined
pH : 4-9 @5g/l	Specific gravity or relative density: Not determined
Melting point/freezing point (°C): Not applicable	Water Solubility: Not determined

Initial boiling point and boiling range (°C): Not applicable	Partition coefficient: n-octane/water: Not determined
Flash point (°C): Not applicable	Auto ignition temperature (°C): Not determined
Evaporation rate: Not applicable	Decomposition temperature (°C): Not determined
Flammability (solid, gas): Not applicable	Viscosity: Not determined

9.2 Other Information

Section 10 Stability and Reactivity

10.1 Reactivity:	The material is an inert, inorganic material primarily composed of elemental oxides.
10.2 Chemical stability:	Product is stable. No hazardous polymerization will occur.
10.3 Possibility of hazardous reactions:	Product will not undergo hazardous polymerization
10.4 Conditions to avoid:	Oxidizing agents may cause exothermic reactions.
10.5 Incompatible materials:	Not determined
10.6 Hazardous decomposition products:	Thermal decomposition may produce: nitrogen oxides (NO _x), carbon oxides.

Section 11 Toxicological Information

11.1 Information on Toxicological Effects

Endpoint	Data
Acute oral toxicity	LD 50: > 5,000 mg/kg Species: Rat
Acute dermal toxicity	The results of testing on rabbits showed this material to be non-toxic even at high dose levels.
Acute inhalation toxicity	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation	Skin: The results of testing on rabbits showed this material to be non-irritating to the skin.
Eye damage/irritation	Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slightly transitory conjunctival effects similar to those which all

Endpoint	Data
	Granular materials have no conjunctivae.
Respiratory/skin sensitization	The results of testing on guinea pigs showed this material to be non-sensitizing.

Section 12
Ecological Information

12.1 Toxicity

Fish	LC 50: >100 mg/l Exposure time: 96 h Species: Danio rerio (zebra fish)
Daphnia and other aquatic organisms	EC 50: >100 mg/l Exposure time: 48 h Species: Water flea (Daphnia magna) Method: OECD Test Guideline 202

12.2 Persistence and Degradability

Not readily biodegradable

12.3 Bioaccumulative Potential

Does not bioaccumulate

12.4 Mobility in Soil

No data available.

12.5 Results of PBT and vPvB Assessment

No data available.

12.6 Other Adverse Effects

None known.

Section 13
Disposal Considerations

*Waste from residues / unused products: In accordance with federal, state, and local regulations.
 Contaminated packaging: Rinse empty containers with water and use the rinse-water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local regulations.*

Section 14
Transport Information

Regulatory entity: U.S. DOT	Shipping Name:	Not Regulated
	Hazard Class:	Not Regulated
	ID Number:	Not Regulated
	Packing Group:	Not Regulated

Section 15
Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Mixture

- o **California Proposition 65**

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

Section 16
Other Information, Including Date of Preparation or Last Revision

16.1 Indication of Changes

Date of preparation or last revision: May 29, 2015

DISCLAIMER:

This SDS has been prepared in accordance with the Hazard Communication Rule 29 CFR 1910.1200. Information herein is based on data considered to be accurate as of date prepared. No warranty or representation, express or implied, is made as to the accuracy or completeness of this data and safety information. No responsibility can be assumed for any damage or injury resulting from abnormal use, failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.