

Date of issue: 07/16/2018 Revision date: 08/14/2018 Version: 2.0

## **SECTION 1: Identification**

1.1. Identification

Product form : Mixture
Product name : Thoro-Flush

Product code : 468-9110-16 & 468-9112-16

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Coolant System Cleaner

1.3. Supplier

Irontite Products Inc. 2525 18th Street SW, Suite D Cedar Rapids, Iowa 52404 T (319) 377-9421 or 1-800-553-5953

service@irontite.com

1.4. Emergency telephone number

Emergency number : 1-800-553-5953 8am-4pm CST(GMT - 6)

## SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Acute Tox. 4 (Inhalation:dust,mist)

Skin Irrit. 2 Eye Dam. 1

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Harmful if inhaled
Causes skin irritation

Causes serious eye damage

Precautionary statements (GHS-US) : Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash hands, forearms and face thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection. If inhaled: Remove person to fresh air and keep comfortable for breathing

Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water

Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

Immediately call a poison center or doctor

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

19.99% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

#### SECTION 3: Composition/Information on ingredients

## 3.1. Substances

Not applicable

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

#### 3.2. Mixtures

Name	Product identifier	%
Trisodium phosphate	(CAS-No.) 7601-54-9	Proprietary
Sodium salt	(CAS-No.) Proprietary	Proprietary

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation

: If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact

: IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

# Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation

: Harmful if inhaled. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact

: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the

skin.

Symptoms/effects after eye contact

: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion

: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

## Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media

: None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard

: Products of combustion may include, and are not limited to: oxides of carbon. Metal oxides.

Reactivity

: No dangerous reactions known under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

## 6.1.1. For non-emergency personnel

No additional information available

## 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid dispersal or spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3. Methods and material for containment and cleaning up

For containment

: Move containers from spill area. Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Methods for cleaning up

: Do not dry sweep spilled material. Vacuum or sweep material and place in a disposal container. Provide ventilation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Avoid generating dust. Good housekeeping is important to prevent accumulation of dust.

Hygiene measures

: Take off contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of the reach of children. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed. Do not store in unlabelled containers.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Trisodium phosphate (7601-54-9)			
AIHA	WEEL STEL (mg/m³)	5 mg/m³ (15-min. STEL)	
Sodium salt (Proprietary)			
Not applicable			

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

Provide local exhaust or general room ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

: Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves resistant to chemical penetration

## Eye protection:

Wear eye/face protection

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder / Granules

Color : Red
Odor : Odorless
Odor threshold : No data available

pH : No data available
Melting point : No data available
: No data available

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Freezing point : No data available Boiling point : No data available Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available : No data available Vapor pressure Relative vapor density at 20 °C : No data available Relative density : No data available Specific gravity / density : 1.5 g/cm<sup>3</sup>

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient n-octanol/water : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** No data available Explosive properties : No data available : No data available Oxidizing properties

9.2. Other information

VOC content : 0 % (w/w)

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Heat. Incompatible materials.

## 10.5. Incompatible materials

Oxidizing materials. Acids.

## 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Harmful if inhaled.

Thoro-Flush		
ATE US (dust, mist)	1.502 mg/l/4h	
Trisodium phosphate (7601-54-9)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 inhalation rat	> 2.16 mg/l (Exposure time: 1 h)	
Sodium salt (Proprietary)		
LD50 oral rat	4090 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
Chin annualing/invitation	Course ship imitation	

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.

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Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
Specific target organ toxicity – repeated : Not classified

exposure

Aspiration hazard : Not classified

Symptoms/effects after inhalation : Harmful if inhaled. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the

skin.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Sodium salt (Proprietary)		
LC50 fish 1 300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	

#### 12.2. Persistence and degradability

Thoro-Flush	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Thoro-Flush	
Bioaccumulative potential	Not established.
Sodium salt (Proprietary)	
BCF fish 1	(no bioaccumulation)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : No other effects known.

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. The generation of waste should be avoided or minimized wherever possible.

## **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

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Other information : None.

Prepared by : Nexreg Compliance Inc.

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