

GHS - SAFETY DATA SHEET

Date: 2019.12.05

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name Ferric Naphthenate (in mineral spirits) 6% iron content

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fluid used as a reactant to help oxidize engine oils at elevated temperatures in a bench lab test.

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Supplier Tannas Company/Savant Tech (a division of Savant, Inc.)
4800 James Savage Rd.
Midland, MI 48642 USA

Phone: 989-496-2301

Fax: 989-496-3438

1.4 Emergency telephone number

CHEMTREC, US: 1-800-424-9300

CHEMTREC, International: 1-703-527-3887

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Statement of Hazards Flammable, Irritant

Physical Hazards Not available

HMIS Rating: H:1 F:2 P:0

NFPA Rating: H:1 F:2 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Symbol(s)



2.2 Label Elements

Warning

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2.3. Other Hazards

Physical / Chemical Hazards:

- H226** Flammable liquid and vapor.
- H302** Harmful if swallowed.
- H312** Harmful if contact with skin.
- H315** Causes skin irritation.
- H319** Causes serious eye irritation.
- H332** Harmful if inhaled.
- H335** May cause respiratory irritation.

Health Hazards: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

Environmental Hazards:

Not available.

Section 3. Composition/information on ingredients

3.1 Substances

Chemical Name	EC-No	CAS-No	MDL-No	EINECS-No	Weight %	Beilstein Reg - No	Molecular Formula
Ferric Naphethenate	Not classified	1338-14-3	MFCD00147295	215-660-7	95-100%	NA	2(C ₁₁ H ₇ O ₂).Fe

Note: In mineral spirits, 6% Iron

Type

- (1) Substance classified with a health or environmental hazard.
- (2) Substance with a workplace exposure limit.

Section 4. First aid measures

4.1 Description of first-aid measures

- Eye contact: Flush with water for 15 minutes. If irritation continues, contact a physician.
- Skin contact: Wash skin thoroughly with soap and water. Launder soiled clothing.
- Inhalation: Although inhalation of the material is unlikely, if respiratory discomfort occurs or irritation develops due to inhalation of oil mist, move person to fresh air. Contact a physician if discomfort or irritation continues.

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Ingestion: Do not induce vomiting. Seek medical attention.

4.2 Most important symptom and effects, both acute and delayed

Most Important Symptoms/Effects: Irritation

4.3 Indication of immediate medical attention and special treatment needed

Notes to Physician: Treat symptoms

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable Extinguishing Media: Carbon dioxide, dry chemical, alcohol resistant foam, water spray.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, and resulting gases: None in particular.

5.3 Advice for firefighters

Special protective equipment for fire-fighters:

As in any fire, wear self-contained breathing apparatus and full protective impervious suit.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

Wear a self-contained breathing apparatus, rubber boots, gloves, and disposable coveralls. Dispose of coveralls after use.

Keep unprotected persons away.

6.2 Environmental precautions

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

6.3 Methods and materials for containment and cleaning up

Absorb large spills with commercially available absorbent materials such as absorbent clay, sand, silica gel, acid binder, universal binder, sawdust, etc.

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6.4 Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1 Precautions for Safe Handling

Handling

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Hygiene Measures

Product is readily removed from skin by washing thoroughly with soap and water. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

7.2 Conditions for safe storage, including and incompatibilities

Store in a tightly closed container in a dry, well ventilated place.

7.3 Specific end use(s)

Exposure Scenario

Protect from sunlight. Store in a well ventilated place.

Other Guidelines

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed

Section 8. Exposure controls/personal protection

8.1 Control Parameters

Exposure Limits

If exposure exceeds TLV, use appropriate NIOSH approved respiratory protection

Derived No Effect Level No information available

Predicted No Effect Concentration No information available

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(PNEC)

8.2 Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection

Use splash goggles or face shield when eye contact may occur.

Skin and Body Protection

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

Hand Protection

Use chemical-resistant gloves if needed to avoid prolonged exposure or repeated skin contact.

Respiratory Protection

If exposure exceeds TLV, use appropriate NIOSH approved respiratory protection.

Environmental Exposure Controls

Ventilation: Needed only if unusual operating conditions create concentrations in excess of TLV.
Avoid smoking or open fire.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State

Liquid

Appearance

Brown

Odor

Not available

Property	Values	Remarks/Method
pH	Not Available	
Melting Point/Range	Not Available	
Boiling Point/Boiling Range	Not Available	
Flash Point	54.5°C	
Vapor Pressure		
Vapor Density	Not available	
Relative Density	0.90g/cm ³	
Water Solubility	Not Available	
Viscosity	Not Available	
Explosive Properties	Lower: Not Available Upper: Not Available	

9.2 Other information

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VOC Content (%) No information available.

Flammability Limits in Air No information available.

Section 10. Stability and reactivity

10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under normal temperature and pressure.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

High temperatures and open flames

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon oxides, Iron oxides

Section 11. Toxicological information

11.1 Acute Toxicity

Production information

RTECA Reference	No information available.
Eye Contact	No information available.
Skin Contact	No information available.
Ingestion	No information available.
Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenic Effects	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
STOT – single exposure	No information available.
STOT – repeat exposure	No information available.
Aspiration Hazard	No information available.

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Section 12. Ecological information

<u>12.1 Toxicity Eco toxicity Effects</u>	Not available.
<u>12.2 Persistence and degradability</u>	Not available.
<u>12.3 Bio accumulative potential</u>	Not available.
<u>12.4 Mobility in soil</u>	Not available.
<u>12.5 PBT and vPvB assessment</u>	Not available.
<u>12.6 Other adverse effects</u>	Not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from Residues/Unused Products

Contact a licensed professional waste disposal service. Dispose in a manner consistent with local, state and federal regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

DOT

14.1 UN-Number	UN1993
14.2 Shipping Name	Flammable Liquids N.O.S.
14.3 Hazard Class	Class 3
14.4 Packing Group	III

IMDG/IMO

14.1 UN-Number	UN1993
14.2 Proper Shipping Name	Flammable Liquids N.O.S.
14.3 Hazard Class	Class 3

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14.4 Packing Group III

IATA

14.1 UN-Number UN1993
14.2 Proper Shipping Name Flammable Liquids, N. O. S.
14.3 Hazard Class Class 3.
14.4 Packing Group III

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations	
US TSCA Listed	Yes
Superfund Amendments and Reauthorization Act (SARA 302)	Not available
Superfund Amendments and Reauthorization Act (SARA 311/312)	Not available
Superfund Amendments and Reauthorization Act (SARA 313)	Not available
EINECS	No.215-660-7
	Hazard Codes: Not available
	Risk Statements: 10-36/37/38
	Safety Statements: 26
Canadian Domestic Substances List (DSL)	Listed
Canadian Domestic Substances List (NDSL)	Not listed

International Inventories

TSCA Listed
EINECS/ELINCS 215-660-7
DSL/NDSL Listed/Not Listed
PICCS N/A
ENCS N/A
IECSC N/A
AICS N/A
KECL N/A

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

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DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

PICCS – Philippines Inventory of Chemicals and Chemical Substances

ENCS – Japan Existing and new Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

AICS – Australian Inventory of Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16 Other information

Full text of R-phrases referred to under Section 2 and 3

No information available

Issuing Date: 2019 December 5th

SDS Revision Date: 2019 December 5th

Revision Note: Updated Section 2 and 3

This safety data sheet compiles with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EU) No. 1907/2006

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End of Safety Data Sheet