

GHS - SAFETY DATA SHEET

Date: 2015.07.14

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

1.1 Product identifier

Product Name TFOUT IIIE Catalyst

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

Recommended Use

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

1.4 Emergency telephone number

Emergency Phone 989-496-2301
Fax 989-496-3438

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

Physical Hazards

None

Symbol(s)



2.2 Label Elements

Not classified

2.3 Other information

Flammable liquid and vapor	Harmful if in contact with skin
Combustible liquid	Causes skin irritation
Harmful if swallowed	Causes serious eye irritation
May be fatal if swallowed and enters airways	Harmful if inhaled
May cause respiratory irritation	May damage fertility or the unborn child
Very toxic to aquatic life with long-lasting effects	
Causes damage to organs through prolonged or repeated exposure	

GHS - SAFETY DATA SHEET

Date: 2015.07.14

Section 3. Composition/information on ingredients

3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU-GHS Substance Classification	REACH No.
Complex mixture of metal naphthenates		Proprietary	<50%			
Mineral spirits		68551-17-7	>50%			

Complex mixture of mineral spirits and metal naphthenates

Section 4. First aid measures

4.1 Description of first-aid measures

- Eye contact: Flush eyes with large amounts of water for fifteen minutes. If irritation continues, contact physician.
- Skin contact: Wash skin thoroughly with soap and water. Launder soiled clothing. If irritation continues, contact physician.
- Inhalation: Move to fresh air environment. Contact a physician if breathing becomes difficult.
- Ingestion: If material is swallowed, give 2 glasses of water and DO NOT induce vomiting. Contact a physician.

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

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water fog.

Extinguishing media which must not be used for safety reason

Water spray or stream.

GHS - SAFETY DATA SHEET

Date: 2015.07.14

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

No data available

5.3 Advice for firefighters

Special protective equipment for fire-fighters

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

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

For personal protection see section 8. Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.

6.2 Environmental precautions

Keep spills out of sewers and bodies of water. Kike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to 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

Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other sections

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 ina chemical fume hood. Open and handle container with care. Keep ignition sources away. Do not handle or store near heat, sparks, flame or strong oxidants. Store in a tightly closed container in a dry, well-ventilated place. Storage temperature 15-30 (°C)

Hygiene Measures

GHS - SAFETY DATA SHEET

Date: 2015.07.14

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including and incompatibilities

7.3 Specific end use(s)

Exposure Scenario

No information available.

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

Derived No Effect Level

Predicted No Effect Concentration (PNEC)

No information available.

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. Make sure there is an eyewash station in your vicinity.

Skin and Body Protection

Wear impervious gloves and protective clothing.

Hand Protection

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

Respiratory Protection

If exposure exceeds TLV, or if irritation or other symptoms are experienced, use appropriate NIOSH approved respiratory protection.

Other Protective Equipment

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

GHS - SAFETY DATA SHEET

Date: 2015.07.14

Or Precautions

Environmental Exposure Controls

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid Appearance Opaque brown

Odor N/D

Property	Values	Remarks/Method
pH	N/A	None known
Melting Point/Range	N/A	None known
Boiling Point/Boiling Range	N/D	None known
Flash Point	N/A	None known
Evaporation rate	N/D	None known
Flammability (solid, gas)	N/A	None known
Vapor Pressure at 40°C (mm Hg)	N/D	None known
Vapor Density	N/D	None known
Relative Density	N/A	None known
Specific gravity	N/D	None known
Water Solubility	Insoluble	None known
Solubility in other solvents	N/A	None known
Partition coefficient: n-octanol/water	N/A	None known
Decomposition Temperature	N/A	None known
Auto ignition Temperature	N/D	None known
Viscosity	N/A	None known
Explosive Properties	N/A	None known
Oxidizing Properties	N/A	None known

9.2 Other information

VOC Content (%) No information available.

Flammability Limits in Air No information available.

Section 10. Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

GHS - SAFETY DATA SHEET

Date: 2015.07.14

10.4 Conditions to avoid

Heat, flame, sparks and other ignition sources.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

May produce oxides of carbon and other metal oxides. Product may react with incompatible materials to release other hazardous substances.

10.7 Hazardous Polymerization

No data available.

Section 11. Toxicological information

11.1 Acute Toxicity

Production information

Inhalation	No data available
Eye Contact	No data available
Skin Contact	No data available
Ingestion	International Agency for Research on Cancer (IARC) listed Not available
Potential Symptoms	Not available
Carcinogenicity	National Toxicology Program (NTP) listed: Not available

Section 12. Ecological information

12.1 Toxicity

Eco toxicity Effects

N/D

12.2 Persistence and degradability

Not available

12.3 Bio accumulative potential

Not available

12.4 Mobility in soil

Not available

GHS - SAFETY DATA SHEET

Date: 2015.07.14

12.5 Results of PBT and vPvB assessment

N/A

12.6 Other adverse effects

No data available

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from Residues/Unused Products

Place contaminated material in disposable containers and bury in an approved landfill site per local, state and federal regulations.

Contaminated Packaging

Section 14. Transport information

U.S. DOT: Flammable Liquids, N.O.S IMDG: Flammable Liquids, N.O.S

IATA: Flammable Liquids, N.O.S

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
SARA 313	Yes
International Regulations	
DSL	Yes
EINECS	263-109-4

International Inventories

TSCA	Complies
EINECS/ELINCS	N/A
DSL/NDSL	N/A
PICCS	N/A
ENCS	N/A
IECSC	N/A
AICS	N/A
KECL	N/A

GHS - SAFETY DATA SHEET

Date: 2015.07.14

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

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

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