

GHS - SAFETY DATA SHEET

Date: 2023.12.5

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

Product Name **TFOUT IIID Catalyst (Catalyst A)**

Recommended Use: Catalytic material for use in high temperature TFOUT oxidation test equipment.

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

Emergency Phone: 989-496-2301

Section 2. Hazards identification

GHS Classification: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label Elements

Hazard pictograms:



Signal Word: Danger

Hazard Statement: Flammable liquid and vapor
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long-lasting effects.

Precautionary Statements

Prevention: Keep away from heat/sparks/open flames/hot surfaces/- No smoking.
Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician If you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Not applicable.

Other Hazards: None known.

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Section 3. Composition/information on ingredients

Substance/Mixture: Substance
Chemical Name: Distillates (petroleum), solvent-dewaxed paraffinic
Other means of Identification: Base oil – unspecified; Distillates, petroleum, solvent-dewaxed heavy paraffinic; Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic; Distillates (petroleum), solvent-dewaxed paraffinic; Base oil – unspecified; Paraffin oil
CAS number/other Identifiers:

Chemical Name	CAS-No	Weight %
Mixture of metal naphthenates	Proprietary	<50%
Mineral spirits	68551-17-7	>50%

Section 4. First aid measures

Eye contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
Skin contact: Wash skin with soap water. If irritation persist, seek medical attention.
Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.
Ingestion: Do not induce vomiting. Seek medical attention.
Most Important Symptoms/Effects:
No known significant effects or critical hazards.
Indication of immediate medical attention and special treatment needed:
No known significant effects or critical hazards.

Section 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray.
Unsuitable Extinguishing Media: NA
Special exposure hazards arising from mixture: May emit hazardous fumes under fire conditions.
Special protective equipment for fire-fighters: NA

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Section 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:

Wear a self-contained breathing apparatus, rubber boots, 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

Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material (e.g., sand, earth, vermiculite) or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

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 after material pickup is complete.

Section 7. Handling and storage

Precautions for Safe 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.

Advice in general, occupational hygiene:

Conditions for Safe Storage: 15 to 30

Section 8. Exposure controls/personal protection

Occupational Exposure Limits:

OSHA	Component	Type	Value
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	PEL	Not Available

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ACGIH

Component	Type	Value
Distillates (petroleum), solvent-dewaxed heavy paraffinic	TWA	Not Available

NIOSH

Component	Type	Value
Distillates (petroleum), solvent-dewaxed heavy paraffinic	STEL TWA	Not Available

Appropriate Engineering Controls: Use product in a well-ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Individual Protection Measures, such as Personal Protective Equipment:

Eye/Face Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin and Body Protection: Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

General Hygiene Considerations: 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

Appearance	Amber
Physical State	Liquid
Odor	Not Available
Odor Threshold:	Not Available
pH:	Not Available
Melting/Freezing Point:	< 100
Initial Boiling Point:	Not Available
Flash Point:	40°C
Evaporation Rate:	Not Available
Flammability (solid, gas):	Not Available
Upper/Lower Flammability or Explosive Limits	
Flammability Limit	
Lower %:	Not Available

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Upper %:	Not Available
Explosive Limit	
Lower %:	Not Available
Upper %:	Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Relative Density:	1.13
Solubility (water):	Insoluble
Partition Coefficient (n-octanol/water):	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	Not Available

Section 10. Stability and reactivity

Reactivity:	Product may react with incompatible materials to release other hazardous substances.
Chemical Stability:	Stable under normal temperatures and pressure.
Possibility of Hazardous Reactions:	No Specific Data
Conditions to Avoid:	Heat, flame, sparks, other ignition sources.
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon oxides, Lead oxides

Section 11. Toxicological information

Information on Likely Routes of Exposure

Inhalation	No known significant effects or critical hazards.
Eye Contact	No known significant effects or critical hazards.
Skin Contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Not available.

Eye contact:	No specific data.
Inhalation:	No specific data.

Information on Toxicological Effects

Acute Toxicity:	Not applicable.
Skin Corrosion / Irritation:	Not applicable.
Serious Eye Damage / Eye Irritation:	Not applicable.
Respiratory or Skin Sensitization	Not available.
Respiratory Sensitization:	Not available.

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Skin Sensitization:	Not available.
Mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive Toxicity:	Not available.
Specific Target Organ Toxicity - Single Exposure	Not available.
Specific Target Organ Toxicity - Repeated Exposure	Not available.
Aspiration Hazard	Not available.
Chronic Effects	Not available.

Section 12. Ecological information

Ecotoxicity:	Not available.
Persistence and Degradability:	Not available.
Bio accumulative Potential:	Not available.
Mobility in Soil:	Not available.
Other Adverse Effects:	Not available.

Section 13. Disposal considerations

Disposal Instructions:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities, with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. The material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport information

DOT:	Not regulated as dangerous goods.
IMDG:	Not regulated as dangerous goods.

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Section 15. Regulatory information

U.S. Federal Regulations: Yes
**United States Inventory:
(TSCA 8b)** This material is listed or exempted.

Section 16. Other information

Issuing Date: 2015 August 17th
SDS Revision Date: 2023 December 5th
Revision Note: Date Extension- Review Completed

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