

GHS - SAFETY DATA SHEET

Date: 2022.11.01

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

Product Name High Temperature / High Shear Reference Oil – (NNR-10)
Recommended Use: Viscometer and/or density measurement equipment calibration and performance verification reference standard.
Supplier: Tannas Company/Savant Tech (a division of Savant, Inc.)
4800 James Savage Rd.
Midland, MI 48642 USA
Emergency Phone: 989-496-2301
Fax: 989-496-3438

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: None
Signal Word: None
Hazard Statement: No known significant effects or critical hazards.

Precautionary Statements

Prevention: Do not breathe gas/mist/vapors/spray.
Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If exposed or concerned: Get medical advice/attention.
Storage: Store locked up.
Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other Hazards: None known.

Section 3. Composition/information on ingredients

Substance/Mixture: Mixture
Chemical Name: None
Other means of Identification: None
CAS number/other Identifiers: None

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Chemical Name	CAS-No	Weight %
Petroleum distillates, solvent-dewaxed heavy paraffinic	64742-65-0	90 - 100%

Section 4. First aid measures

- Eye contact:** Rinse immediately with water. Remove contact lenses, if safe and possible to do. Continue rinsing with water for at least 15 minutes. Keep impacted eye(s) wide open while rinsing. If eye irritation persists, consult a specialist.
- Skin contact:** Take off contaminated clothing and shoes immediately. Wash off affected area with plenty of soap and water. If symptoms persist, call a physician.
- Inhalation:** Move person to an area with fresh air if breathing is difficult. Keep person at rest in a position comfortable for breathing. If symptoms persist, call a physician.
- Ingestion:** Rinse mouth with plenty of water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most Important Symptoms/Effects:

Defatting of the skin.

Indication of immediate medical attention and special treatment needed:

If necessary, treat symptomatically.

Section 5. Fire-fighting measures

Extinguishing media

- Suitable Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO₂)
- Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.

Special exposure hazards arising from mixture: No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters: Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

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Section 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:

Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. If significant spillages cannot be contained, local authorities should be advised.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where possible. Absorb in vermiculite, dry sand or other non-combustible absorbent material then place into containers. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions:

Prevent entry into waterways, sewer, basements or confined areas. Avoid discharge to the aquatic environment. Avoid discharge into drains, watercourses or onto the ground. If the product contaminates rivers and lakes or drains, then inform the respective authorities.

Section 7. Handling and storage

Precautions for Safe Handling:

Do not breathe dust, fume, gas, mist, vapors or spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling should take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.

Conditions for Safe Storage:

Store locked up. Keep away from heat, sparks and open flame. Store in a well-ventilated place.

Section 8. Exposure controls/personal protection

Occupational Exposure Limits:

OSHA	Component	Type	Value
	Petroleum distillates, solvent-dewaxed light paraffinic	PEL	5mg/m3

ACGIH

Component	Type	Value
Petroleum distillates, solvent-dewaxed light paraffinic	TWA	5mg/m3

NIOSH

Component	Type	Value
Petroleum distillates, solvent-dewaxed light paraffinic	STEL	10mg/m3
	TWA	5mg/m3

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Appropriate Engineering Controls:	Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Individual Protection Measures, such as Personal Protective Equipment:	
Eye/Face Protection:	Goggles/face shield are recommended.
Hand Protection:	Polyvinyl alcohol or nitrile-butyl-rubber gloves are Recommended.
Skin and Body Protection:	Chemical/oil resistant long-sleeve clothing is recommended. Launder contaminated clothing before reuse.
Respiratory Protection:	If vapors/mist concentration exceed the exposure limit(s), an appropriate certified respirator must be used.
General Hygiene Considerations:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Section 9. Physical and chemical properties

Appearance	Clear
Physical State	Liquid
Odor	Hydrocarbon-like
Odor Threshold:	Not Available
pH:	Not Available
Melting/Freezing Point:	>10°F (>-12.2°C), ASTM D5949
Initial Boiling Point:	>720°F (>382.2°C), ASTM D2887
Flash Point:	>420°F (215.6°C) COC, ASTM D92
Evaporation Rate:	Not Available
Flammability (solid,gas):	Not Available
Upper/Lower Flammability or Explosive Limits	
Flammability Limit	
Lower %:	>0.6
Upper %:	<7
Explosive Limit	
Lower %:	Not Available
Upper %:	Not Available
Vapor Pressure:	<0.1mmHg (20°C)
Vapor Density:	>1
Relative Density:	0.88 @60°F (15.56°C)
Specific Gravity:	Not Available
Solubility (water):	Insoluble
Partition Coefficient	
(n-octanol/water):	Not Established
Auto-ignition Temperature:	>600°F (315.6°C) ASTM E659
Decomposition Temperature:	Not Available
Viscosity:	32cSt @104°F (40°C) ASTM D445

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Section 10. Stability and reactivity

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical Stability:	Stable.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Heat, flames, and sparks. Avoid temperatures that exceed the flash point.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Decomposition products include carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Section 11. Toxicological information

Information on Likely Routes of Exposure

Inhalation	May be harmful if swallowed.
Eye Contact	May be irritating to eyes.
Skin Contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Ingestion	May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration.
Symptoms Related to the Physical, Chemical and Toxicological Characteristics:	Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.
Information on Toxicological Effects	
Acute Toxicity:	Not applicable
Skin Corrosion / Irritation:	May cause defatting of the skin, but is neither an irritant nor a sensitizer.
Serious Eye Damage / Eye Irritation:	May cause minor irritation to eyes.
Respiratory or Skin Sensitization	
Respiratory Sensitization:	Not classified.
Skin Sensitization:	Not classified.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	This product's components are not considered to be carcinogenic by IARC, ACGIH, NTP or OSHA. Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic component (PAC) using IP 346.
Reproductive Toxicity:	Contains no ingredient listed as toxic to reproduction.
Specific Target Organ Toxicity - Single Exposure	Not classified
Specific Target Organ Toxicity - Repeated Exposure	Not classified

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Aspiration Hazard
Chronic Effects

May be fatal if swallowed and enters airways.
Prolonged or repeated contact may cause drying and cracking of the skin.

Section 12. Ecological information

Ecotoxicity: Not expected to be harmful to aquatic organisms.
Persistence and Degradability: Not inherently biodegradable.
Bio accumulative Potential: No information available.
Mobility in Soil: No information available.
Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

Section 13. Disposal considerations

Disposal Instructions: Disposal of waste material should comply with all local, state, federal and provincial environmental regulations. See Section 7 for safe handling procedures and section 8 for personal protective equipment recommendations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Follow label warnings even after container is emptied. Avoid contact of any spilled material or runoff with soil, waterways, drains and sewers.

Section 14. Transport information

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

Section 15. Regulatory information

U.S. Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

United States Inventory: All components are listed or exempted.
(TSCA 8b)

SARA 302/304:
Composition/Information on Ingredients
No products were found.

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SARA 311/312 Hazard Categories:

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313:

No products were found.

CERCLA:

No products were found.

State Regulations:

California Prop 65:

No components are listed.

Section 16. Other information

Issuing Date:	2015 August 17 th
SDS Revision Date:	2022 November 1 st
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