

# GHS - SAFETY DATA SHEET

Date: 2015.8.17

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

### 1.1 Product identifier

**Product Name** High Temperature / High Shear Reference Oil - (NNR-10)

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

**Recommended Use** Viscometer and/or density measurement equipment calibration and performance verification reference standard

**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

REGULATION (EC) No 1272/2008  
Not classified

#### **Physical Hazards**

None

#### **Classification according to EU Directives 67/548/EEC or 1999/45/EC**

*For the full text of the R-phrases mentioned in this Section, see Section 16*

**Symbol(s)** Not hazardous

### 2.2 Label Elements

Not classified

### 2.3 Other information

#### **2.3. Other Hazards**

#### **Physical / Chemical Hazards:**

No significant hazards.

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## Health Hazards:

Excessive exposure may result in eye, skin, or respiratory irritation.

## Environmental Hazards:

No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

## Section 3. Composition/information on ingredients

### 3.1 Substances

Hydro treated base oil (Does not contain IP 346 DMSO extract)

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU-GHS Substance Classification	Type
Hydro treated Paraffinic Base Oil	Not classified	64742-58-1and/or 64742-62-7	90-99.9%	Not classified	5mg/M3 TWA ACG1H	(2)
Viscosity Modifier	Not classified	68648-89-5	0.1 -10%	Not classified		(2)

### 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. If irritation continues, contact a physician.

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.

### 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

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## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

#### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical, foam, water fog. Water spray or stream.

#### **Extinguishing media which must not be used for safety reason**

Water spray or stream.

### 5.2 Special hazards arising from the substance or mixture

#### **Special exposure hazards arising from the substance or preparation itself, combustion products, 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 gear.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedure

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

### 6.2 Environmental precautions

Prevent spreading over a wide area by containment or oil barriers. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

### 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.

### 6.4 Reference to other sections

See Section 12 for additional information.

## Section 7. Handling and storage

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## 7.1 Precautions for Safe Handling

### Handling

Minimize breathing vapor, mist or fumes.

Avoid prolonged or repeated contact with skin.

Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work period.

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.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including and incompatibilities

Keep containers closed when not in use and store in a cool, dry, ventilated area.

Do not handle or store near heat, sparks, flame or strong oxidants.

## 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

No information available

Predicted No Effect Concentration  
(PNEC)

No information available

## 8.2 Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas.

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## 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 prolonged exposure 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** No information available

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical State** Liquid. **Appearance** Yellow

**Odor** Slight hydrocarbon.

Property	Values	Remarks/Method
pH	N/A	None known
Melting Point/Range	N/A	None known
Boiling Point/Boiling Range	(>) 509°F / 265°C	None known
Flash Point	(>) 380°F minimum ASM D92 (193°C)	None known
Evaporation rate	N/D	None known
Flammability (solid, gas)	N/A	None known
Vapor Pressure	<0.01	None known
Vapor Density	>1	None known
Relative Density	N/A	None known
Water Solubility	Nil	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

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## 9.2 Other information

VOC Content (%) No information available.

Flammability Limits in Air No information available.

## Section 10. Stability and reactivity

### 10.1 Reactivity

Not reactive under normal conditions.

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

None known

### 10.4 Conditions to avoid

High temperatures and open flames.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

May produce oxides of carbon.

## Section 11. Toxicological information

### 11.1 Acute Toxicity

#### Production information

<b>Inhalation</b>	Breathing mineral oil mists at levels above TLV may cause respiratory irritation and possible discomfort. Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs that may progress to pulmonary fibrosis. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities
<b>Eye Contact</b>	May cause minor eye irritation.
<b>Skin Contact</b>	Material expected to cause no more than minor skin irritation following prolonged or repeated contact.
<b>Ingestion</b>	Not expected to be acutely toxic by ingestions. Abdominal discomfort, nausea and diarrhea may occur.

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<b>Medical Conditions Aggravated by Exposure</b>	None known.
<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenic Effects</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>STOT – single exposure</b>	No information available.
<b>STOT – repeat exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

## Section 12. Ecological information

### **12.1 Toxicity**

#### **Eco toxicity Effects**

Contains no substances known to be hazardous to the environment at concentration that would be significant.

### **12.2 Persistence and degradability**

Expected to be not readily biodegradable. Product contains components that may persist in the environment.

### **12.3 Bio accumulative potential**

Contains components with the potential to bio accumulate.

### **12.4 Mobility in soil**

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

### **12.5 Results of PBT and vPvB assessment**

N/A

### **12.6 Other adverse effects**

Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

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

## Section 14. Transport information

**Note:**                      The information provided below may not apply to all shipping situation. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

### IMDG/IMO

<b>14.1 UN-Number</b>	Not regulated.
<b>14.2 Proper Shipping Name</b>	Not regulated.
<b>14.3 Hazard Class</b>	Not regulated.
<b>14.4 Packing Group</b>	Not regulated.
<b>Description</b>	Not regulated.
<b>14.5 Marine Pollutant</b>	None.
<b>14.6 Special Provisions</b>	None.
<b>14.7 Transport in bulk according To Annex II of MARPOL 73/78 and The IBC Code</b>	No information available.

### RID

<b>14.1 UN-Number</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	Not regulated.
<b>14.3 Hazard Class</b>	Not regulated.

### RID(cont.)

<b>14.4 Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5 Environmental hazard</b>	None.
<b>14.6 Special provisions</b>	None.

### ADR

<b>14.1 NU-Number</b>	Not regulated.
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14.2 Proper Shipping Name	Not regulated.
14.3 Hazard Class	Not regulated.
14.4 Packing Group	Not regulated.
Description	Not applicable.
14.5 Environmental hazard	None.
14.6 Special Provisions	None.

## IACO

14.1 UN-Number	Not regulated.
14.2 Proper Shipping Name	Not regulated.
14.3 Hazard Class	Not regulated.
14.4 Packing Group	Not regulated.
Description	
14.5 Environmental Hazard	None.
14.6 Special Provisions	None.

## IATA

14.1 UN-Number	Not regulated.
14.2 Proper Shipping Name	Not regulated.
14.3 Hazard Class	Not regulated.
14.4 Packing Group	Not regulated.
Description	Not applicable.
14.5 Environmental hazard	None.
14.6 Special Provisions	None.

U.S. DOT: Not Dangerous Goods

IMDG: Not Dangerous Goods

## 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

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EPCRA 311/312/313 Categories	Immediate (Acute) Health Effects – No
	Delayed (Chronic) Health Effects – No
	Fire Hazard – No
	Sudden Release of Pressure Hazard – No
	Reactivity Hazard – No

## 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

## 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

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

No information available

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Issuing Date: 2015 August 17<sup>th</sup>  
SDS Revision Date: 2015 August 17<sup>th</sup>  
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