

(A Division of DANA Group)



Registered company by IIC (No: JU- 11148)

1 | Page

MATERIAL SAFETY DATA SHEET

Product Name : DANA UNINHIBITED NAPHTHENIC TRANSFORMER OIL

HS CODE: 27101971

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name : DANA UNINHIBITED NAPHTHENIC TRANSFORMER OIL

Company Identification :Dana Lubricants Factory LLC(Division Of Dana Group)

Plot no 283,Opposite Hamriya Free Zone Phase 2,Al Jurf Industrial Area, Ajman

Telephone : 00971-4-2217273 Fax : 00971-4-2215940

2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition : DANA UNINHIBITED NAPHTHENIC TRANSFORMER OIL

Chemical composition: Synthetic and paraffinic solvent highly refined base stocks blended with additive packages.

The composition of this product is proprietary information. In general, the product does not contain any component that may be a significant health and safety hazard as long as normal precautions in greases are observed and good standards of industrial and personal hygiene are maintained.

3. HAZARDS IDENTIFICATION

According to experience , product is considered to be harmless to health if handled correctly

4. FIRST & MEASURES

General Information : Remove contaminated clothing immediately, to be disposed of or washed before reuse.

Inhalation : If inhaled, provide fresh air, warmth, rest and medical advice if necessary.

Skin Contact: Clean areas of skin affected with soap and copious water. If necessary seek medical advice.

Eye Contact : In case of contact with eyes, rinse immediately with plenty of water until irritation subsides.

Ingestion : Allow the patient to vomit on his own accord. Give copious water to drink and seek medical help if necessary.



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5. FIRE FIGHTING MEASURES

Extinguishing Media: To suit local surroundings (e.g. water spray, carbon dioxide foam, chemical powder).

Special Exposure : Hazard Decomposition products released in a fire should be considered as probably harmful if inhaled (refer to Stability and Reactivity section).

Protective Equipment :Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up Take up with absorbent material, eg sand, sawdust and dispose of as prescribed.

Do not allow to get into waste water or waterways; if this occurs, inform the relevant authority at once .

7. HANDLING & STORAGE

Advice on Safe Handling : Handle in accordance with good hygiene and safety practice. Avoid temperatures > 65 °C

Advice on Protection against Fire &Explosion :N/A

Storage Conditions - Ensure adequate ventilation of storage area. Keep container tightly closed, cool (< 65°C) and dry

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls : Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) Controls. LTEL (8 hour TWA): 5 mg/m³ (EH40, 1998)STEL (15 min): 10 mg/m³ (EH40, 1998)

OES data for oil mist, mineral .In addition the Reciprocal Calculation Procedure (RCP) for hydrocarbons should be considered (EH40, 1998)

Engineering Controls : Ensure adequate ventilation of working area eg Local Exhaust Ventilation.

Personal Protection : Observe normal safety standards for handling chemicals. Avoid inhalation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment appropriate for the task eg gloves, safety goggles, respirators (eg if ventilation is inadequate), appropriate overalls.

9. PHYSICAL & CHEMICAL PROPERTIES

CHARACTERISTICS	TEST METHOD	SPECIFICATION
1-Function:		
Colour	ASTM D 1500	--
	ISO 3104	Max. 12



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3 | Page

Kinematic Viscosity @40 °C mm ² /sec @ (-) 30°C mm ² /sec	ISO 3104	Max. 1800
Pour Point °C	ISO 3016	Max. (-) 40
Water Content (PPM)	IEC 60814	Max. 30 mg/kg for bulk supply Max. 40 mg/kg for supply in Drum
Breakdown Voltage	IEC 60156	Min. 30 kV as delivered Min. 70 kV after lab treatment
Density @20°C KG/dm ³	ISO 3675 OR ISO 12185	TBR
Density @29.5C KG/dm ³	ISO 3675 OR ISO 12185	---
Dielectric Dissipation Factor @ 90°C & 40 to 60 Hz	IEC 60247 OR IEC 61620	Max. 0.005
Particle Content	ISO 60970	No General Requirement
2-Refining/ Stability:		
Appearance	VISUAL	Clear, free from sediment & Suspended matter
Acidity	IEC 62021-1 OR IEC62021-2	Max. 0.01 mg KOH/gm
Inter Facial Tension MN/m	EN 14210 OR ASTM D971	Min. 40
Total Sulphur Content	IP 373 OR ISO 14596	No General Requirement
Corrosive Sulphur	DIN 51353	Non Corrosive
Potentially Corrosive Sulphur	IEC 62535	Non Corrosive
DBDS(Dibenzylidysulphide) mg/kg	IEC 62697	Not Detectable(<5mg/kg)
Inhibitors of IEC 60666	IEC 60666	(U) Uninhibited Oil; Not Detectable (<0.01%)
Metal Passivator Additives mg/kg	IEC 60666	Not Detectable
Other Additives	---	---
2 Furfural Content mg/kg/gm	IEC 61198	Not Detectable
Stray Gassing	See 6.22	No General Requirement
3-Performance:		
	IEC-61125:1992 (METHOD C)	



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4 | Page

Oxidation Stability @120°C, 164 HRS	TEST DURATION; UNINHIBITED OIL: 164 Hrs	
A) Total Acidity mg KOH /gm	1.9.4 of IEC 61125:1992	Max. 1.2
B) Sludge %	1.9.1 of IEC 61125:1992	Max. 0.8
C) DDF @ 90 °C	1.9.6 Of IEC 61125:1992	Max. 0.5
Gassing Tendency	Amendment 1(2004) +IEC 60247	No General Requirement
ECT	IEC60628:1985, METHOD A	No General Requirement
4- Health, Safety and Environment:		
Flash Point	ISO 2719	Min. 135°C
PCA Content %	BS-2000 PART 346	Max. 3 .0%
PCB Content mg/kg/gm	IEC-61619	Not Detectable
Carbon Type Analysis CA % CP % CN %	FTIR	4.0 to 12.0
		Max. 50.0
		Min. 42.0

10. STABILITY & REACTIVITY

Stability : N/A

Thermal Decomposition : Not determined

Conditions To Avoid: N/A

Material To Avoid : N/A

Hazardous Reactions : The product does not undergo hazardous polymerisation.

Hazardous Decomposition products : Oxides of carbon, aldehydes, ketones, and of hydrogen sulphide plus combustion products of nitrogen and sulphur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity No acute toxicological data are available.

LD 50 rat (oral): N/A

LD 50 rat (i.v.): N/A

Dermal Compatibility N/A



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5 | Page

Mucous Membrane Compatibility : N/A

12. ECOLOGICAL INFORMATION

Ecotoxicology : Eco toxicological data are not available.

Further Ecological Information: N/A

Further Information : The product must not enter ground or waste water. If this occurs, inform the local authority at once. Calcium content: approx. 0.229% by mass (atomic absorption)

13. DISPOSAL CONSIDERATIONS

Advice on Disposal: In accordance with national and local authority regulations, eg special waste or incineration after consultation with the operators.

Contaminated Packaging : Treat emptied containers in the same way as the product, or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

IATA approved

Department of transportation Classification: Not hazardous by US DOT Regulations.

Dot Proper Shipping Name: Not Applicable

Other Requirements: Not Applicable

15. REGULATORY INFORMATION

Classification & Labelling : Product is not classified in accordance with the Chemical (Hazard Information and Packaging for Supply Regulations (CHIP 97).

Risk Phrases :N/A

Safety Phrases : N/A

16. OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.



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6 | Page

FOR DANA LUBRICANTS FACTORY LLC



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