

SYSTEM OF VOLUNTARY CERTIFICATION OF FUEL ENERGY COMPLEX
Certificate №POCC RU.E.419.04ЮЛ01

COMPLIANCE CERTIFICATE

№TЭК RU.XII25.H04072

Validity period from 12.03.2012 to 12.03.2015

№ 002195

CERTIFYING ORGANIZATION *TЭК RU.04ЮЛ11-XII25*

AUTONOMOUS NON-PROFIT ORGANIZATION GCSS “NEFTEPROMHIM”

Russia, Republic of Tatarstan, 420061, Kazan, N. Ershova st. 29

Phone: (843) 2387415, Fax: (843) 2381561

PRODUCT Rheological pour point depressant DMN-2005

TS 0257-001-26660001-2007

Serial manufacturing

OK code 005(OKII):

02 5724

Russian Customs Code:

3811 90 0000

COMPLY WITH REGULATION REQUIREMENTS OF

TS 0257-001-26660001-2007

MANUFACTURER *NPKF “Neftekhimtechnologii” LLP*

Russian Federation, 650001, Kemerovo, 2- 40 years of October

CERTIFICATE ISSUED TO *“DEPRAN” R&D LLP*

Russian Federation, 111116, Moscow, 6/2 Aviamotornaya st.

Phone: +7(495) 796 97 82

BASED ON:

1. *Test report №140 on 11.03.2012 (Test laboratory “Neftepromhim”, № POCC RU.0001.21XII31)*
2. *Certificate for application of chemical product at technological processes of oil output and oil №153.39.RU.245844.04472.03.12 from March 12, 2012 to March 12, 2015 (ANP GCSS “Neftepromhim”)*

ADDITIONAL INFORMATION *Certification scheme -1*

Sealed, signed by Krikun, N.G. (Administrative manager), Biktimerov R.R. (Expert)



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MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RHEOLOGIAL POUR POINT DEPRESSANTS DMN-2005

SUPPLIER

EMERGENCY TELEPHONE NUMBER:

+7-495-796-9782

"DEPRAN" R&D LLP

6/2 Aviamotornaya st.,

Moscow, 111116, Russia

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Registration number: 26660001-02-26927

Preparer: A. D. Kozlov

Title: FGUP "STANDARTINFORM"

Date of Last Revision: December 12, 2011

Valid through: December 12, 2016

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	HAZARDOUS INGREDIENTS	CAS#	Hazardous Class
01	Copolymer of vinyl acetate with ethylene	24937-78-8	N/A
02	Diesel fuel	68334-30-5	4
03	Toluene	108-88-3	3

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: Dark brown gel

ODOR: Sharp petroleum odor

HAZARDOUS CLASS 4, LOW HAZARD

SIGNIFICANT HAZARDS:

COMBUSTIBLE liquid and vapor. Skin and eye irritant. May cause irritation to the respiratory tract. Contains a material which can cause nervous system effects. Harmful for water environment.

POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Direct eye contact may cause reddening, swelling, possible lacrimation with festering, irritation, pain, colic, eye constriction

SKIN CONTACT:

Skin contact may cause reddening and swelling.

Product Name: RHEOLOGIAL POUR POINT DEPRESSANTS DMN-2005

SECTION 3 – HAZARDS IDENTIFICATION – continued

INHALATION:

Prolonged, repeated or high exposures may cause excitement followed by flabbiness, general weakness, easy fatigability, nausea, throat tickling, coughing, lacrimation, drowsiness and possibly narcosis. Prolonged, repeated or high exposures may cause chest pain, central nervous system depression leading to headaches, dizziness and in extreme cases loss of consciousness.

INGESTION:

Harmful if swallowed. May cause severe gastrointestinal disturbance with headache, nausea vomiting and diarrhea, In extreme cases may cause hallucinations, convulsions, loss of consciousness.

CARCINOGENICITY:

From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact in the absence of good personal hygiene.

SECTION 4 – FIRST AID MEASURES

EYES:

If material gets into eyes, flush with large amount of water immediately for 10-15 minutes. Consult a physician.

SKIN:

Remove contaminated cloth. In case of skin contact, wash skin immediately with soap and water. If skin burned use aseptic dressing. If rash or irritation develops, consult a physician. Launder clothing before reuse.

INHALATION:

If inhaled, remove to fresh air. Administer oxygen if necessary. Administer tranquilizer if necessary. Consult a physician if symptoms persist or exposure was severe. If loss of consciousness occurred have die victim to inhale liquid ammonia. If respiratory arrest occurred administer artificial ventilation. Call ambulance immediately.

INGESTION:

Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Have die victim drink 8 to 10 ounces (240 - 300 ml) of water to dilute the material in the stomach and administer activated carbon. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration into the lungs. Consult a physician immediately. Avoid use of milk, alcohol, castrol oil.

NOTE TO PHYSICIAN

NOTE TO PHYSICIAN:

Administer activated carbon if necessary. Avoid adrenalin and adrenomimetic drugs.

SECTION 5 – FIRE-FIGHTING MEASURES

Flashpoint: 40-60°C

Autoignition Temperature: 300°C.

Flammable Limits: LEL: 62°C

UEL: 119°

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide. Carbon dioxide

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Combustible liquid. At elevated temperatures, vapors can form an ignitable/explosive mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.

EXTINGUISHING MEDIA: CO₂, Foam, Water Fog, Superheated Steam. Prohibited use of compact water jet.

Product Name: RHEOLOGIAL POUR POINT DEPRESSANTS DMN-2005

SECTION 5 – FIRE-FIGHTING MEASURES – continued

FIRE-FIGHTING INSTRUCTIONS:

Use a self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode. Combustible. Cool fire-exposed containers using water spray.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

LEAKS OR SPILLS:

Use personal protective equipment as necessary. Absorb with suitable chemical absorbent. Dispose of material in accordance with all federal, state and local regulations. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

OTHER:

No known information.

SECTION 7 – HANDLING AND STORAGE

HANDLING AND STORAGE:

Combustible liquid. Avoid heat, sparks and open flames. Avoid breathing vapor and contact with eyes, skin and clothing. Keep container closed when not in use. Avoid storing together with acids, compressed gases, combustible substances. Use in well ventilated area. After handling this product, wash hands before eating, drinking or smoking. If necessary, take first aid action shown in section 4.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

THRESHOLD LIMIT VALUES: Toluene 150/50mg/m³ (vapors), aliphatic hydrocarbons (C₂-C₁₀) = 900/300mg/m³. Periodic monitoring of work zone threshold values is required

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact.

RESPIRATORY PROTECTION:

When concentrations exceed nuisance levels, use appropriate respirator. In extreme cases a Self Contained Breathing Apparatus (SCBA) may be necessary.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water: Insoluble

Soluble in diesel fuel and organic solvents

Kinematic Viscosity @ 60°C: no more than 700mm²/s

Physical State: Gel

Boiling point: N/D

Vapor pressure: N/D

Pour point: not less than 15-40 °C

Vapor density: N/D

SECTION 10 – STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

REACTION ABILITY: Will oxidize, reaction ability increases at elevated temperatures.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Keep away from strong oxidizing agents, heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

Heating or thermal destruction may cause formation of carbon monoxide, carbon dioxide

Product Name: RHEOLOGIAL POUR POINT DEPRESSANTS DMN-2005

SECTION 11 – TOXICOLOGICAL INFORMATION

PRODUCT TOXICOLOGICAL INFORMATION

No known information.

OTHER:

Constant exposure with petroleum products overtime may cause allergic dermatitis and professional eczema.

COMPONENT TOXICOLOGICAL INFORMATION:

<u>Component</u>	<u>DL₅₀R</u>	<u>DL₅₀M</u>	<u>DL₅₀RB</u>	<u>CL₅₀R</u>	<u>CL₅₀M</u>	<u>CL₅₀R</u>
Toluene	1960 mg/kg	1126 mg/kg	8390-18090 mg/kg	45000-53600 mg/m ³ (4hrs)	20000-35000 mg/m ³ (2hrs)	
Fuel	N.D.	N.D.	N.D.	N.D.	N.D.	4600-7640 mg/m ³ (4hrs)

LEGEND: R = Rat
RB = Rabbit
M = Mouse
GP = Guinea Pig

SECTION 12 – ECOLOGICAL INFORMATION

OTHER:

Air contamination with product vapors. Avoid spills. Change in organoleptic properties of water are expected. Toxic to aquatic organisms and hazardous for marine life. Soil hazardous at 3ml/10g.

SECTION 13 – DISPOSAL INFORMATION

DISPOSAL INFORMATION:

Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with applicable regulations. Note that these regulations may also apply to empty containers, drums, liners, and rinsate. Processing, use, dilution, or contamination of this product may cause its physical and chemical properties to change.

SECTION 14 – TRANSPORTATION INFORMATION

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult appropriate regulations to properly classify your shipment for transportation.

PROPER SHIPPING NAME: DOT None-regulated - Rheological pour point depressant DMN

TRANSPORTATION METHOD: Railroad or tractor trailer in accordance with Federal Regulations

INTERNATIONAL TRANSPORTATION HAZARD (ADR, RID, IMDG, ICAO/IATA, etc.): Code 33

REPORTABLE QUANTITY: None

LABEL: Danger, Avoid sunlight, Avoid fire

HAZARD CLASS: 3, sub-class 3.3, label danger

UN CODE: Code 1993

