SAFETY DATA SHEET	SDS N°005 (available on www.rofafrance.com)
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ROFA FRANCE	Date: 02 01 2020
LUBRICANT - Neutral Solvent	Replace version dated: 2018

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1. Product name 150 NEUTRAL SOLVENT – REACH Registration Number 01-2119484627-25 / 01-2119471299-27 / Number QHW / Substance.
1.2. Relevant identified uses of the substance or mixture and uses advised against. SU3 - Industrial Use. For calibration of laboratories analysers.
1.3. Details of the supplier of the safety data sheet: ROFA France - 7 Zone Artisanale Béton Ouest – 25160 Oye-Et-Pallet – France Tel +33 3 81 69 75 47
1.4. Emergency telephone number Emergency phones: ORFILA / Tel : 01.45.42.59.59 / Carechem 24 International. For English speaking countries +44(0)1235239670 / Europe (in local languages) +33149000049 / Africa and Middle East +44(0)1235239671+China 86105100303

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture. REGULATION (EC) No 1272/2008 *For the full text of the H-Statements mentioned in this Section, see Section*
Classification: the product is not classified as dangerous according to Regulation (EC) N° 1272/2008// DIRECTIVE 67/548/EEC or 1999/45/EC. *For the full text of the R-phrases mentioned in this Section, see Section 16.*
Classification: not as hazardous substance or preparation according to Regulation (EC) N° 1272/2008// DIRECTIVE 67/548/EEC or 1999/45/EC.

2.2. Label elements: Not classified/ No label required.

2.3. Other hazards
Physical-Chemical Properties: Contaminated surfaces will be extremely slippery.
Environmental properties: Should not be release in the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Substance

Chemicals Name	EC-N°	Reach Registration Number	CAS-N°	Weight %	Classification (Dir.67/548)	GHS Classification
DISTILLATES (PETROLEUM) solvent dewaxed heavy paraffinic	265-169-7	01-2119471299-27	64742-65-0	0-100		
DISTILLATES (PETROLEUM) hydrotreated heavy paraffinic	265-157-1	01-2119484627-25	64742-54-7	0-100		

4. FIRST AID MEASURES

4.1 Description of first aid measures:
IN CASE OF SERIOUS OR PERSISTENT MANIFESTATIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Inhalation: move to fresh air..
Ingestion: Consult a doctor. Give nothing to drink. Do not induce vomiting. Allow the person to rest. Never give anything by mouth to an unconscious person..
Skin contact: Immediately remove all soiled or stained clothing. Wash immediately and abundantly with soap and water.
Eye contact: Wash immediately in copious amounts of water, keeping eyelids apart for at least 15 minutes and consult a specialist.
4.2 Most important symptoms and effects, both acute and delayed:
Eye contact: Not classified.
Skin contact: Not classified.
Inhalation: Not classified - Inhalation of vapours in high concentration may cause irritation of respiration.
Ingestion: Not classified - Ingestion may cause gastrointestinal, nausea, vomiting and diarrhoea.
4.3 Indication of immediate medical attention and special treatment needed, if necessary:
Note to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media: - suitable: Foam, CO2, powder, possibly water spray (preferably water containing a wetting agent).

- not recommended: Solid water streams are prohibited.
5.2 Specific hazards: Incomplete combustion and thermolysis produce gases of varying toxicity such as CO, CO2, various hydrocarbons, aldehydes and soot. This may be highly dangerous if inhaled in confined spaces or at high concentration.
5.3 Protective measures for fire-fighters: wear full fire resistant protective clothing and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. Cool down any tanks and surfaces exposed to fire by spraying abundantly with water.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal protection: Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use adequate ventilation. Remove all sources of ignition.
6.2 Environmental precaution:
After spillage / leakage: Do not allow to penetrate into sewers, rivers and ground water. Contact the competent authorities if the situation cannot be brought under control rapidly and efficiently.
6.3 Spill clean-up methods - recovery: Dam up. Ontain spillage, and the collect with non-combustible absorbent material and palce in container for disposal according to local national regulations. Keep in suitable closed containers for disposal.

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7. HANDLING AND STORAGE

7.1 HANDLING:
Prevention of user exposure: Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk. Make all the necessary arrangements in order to reduce exposure risk, notably to products in use or to wastes. Keep away from combustive substances; keep away from food and beverages.
Prevention of fire and explosion: Empty containers may contain flammable or explosive vapours. There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulate of these: they are to be disposed off safely after use.
Precautions: Avoid static electricity build up with connection to earth. Avoid contact with strong oxidizing agents. Use only hydrocarbon-resistant containers, joints, pipes etc...Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example).
7.2 Conditions for storage including any incompatibilities:
Technical measures: Make the necessary arrangements to prevent water and soil pollution.
Storage precautions: .
Suitable: Store at room temperature, protected against contact with water and moisture, and away from any source of ignition. Keep containers closed when not in use. To be avoided: Do not store exposed to the elements.
Incompatible products: Dangerous reaction with strong oxidizing agents.
Packaging materials:
Recommended: Use only hydrocarbon-resistant containers, joints, pipes, etc. Keep in original container if possible. Otherwise, transfer all indications on the regulatory label to the new container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Exposure limits: Oil mist – 10mg/m3, for 15 minutes /// oil mist – 5mg/m3 for 8 hours.
DNEL WORKER / Professional

Chemical name	Short term systemic effects	Short term local effects	Long-term systemic effects	Long-term local effect
DISTILLATES (PETROLEUM) solvent dewaxed heavy paraffinic 64742-65-0				5.4 mg/m3/8h (aerosol – inhalation)
DISTILLATES (PETROLEUM) hydrotreated heavy paraffinic 62742-54-7				5.4 mg/m3/8h (aerosol – inhalation)

DNEL Consumer

Chemical name	Short term systemic effects	Short term local effects	Long-term systemic effects	Long-term local effect
DISTILLATES (PETROLEUM) solvent dewaxed heavy paraffinic 64742-65-0				1.2 mg/m3/24h (aerosol – inhalation)
DISTILLATES (PETROLEUM) hydrotreated heavy paraffinic 62742-54-7				1.2 mg/m3/24h (aerosol – inhalation)

8.2 Technical measures: Use this product in a well-ventilated atmosphere with explosion-proof equipment. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Occupational exposure limit:
Exposure controls:
Engineering Exposure controls: Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits. When working in confined spaces ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Respiratory protection: In case of risk of exposure exceeding the mean exposure value, an appropriate breathing apparatus must be worn by each individual.
Hand protection: Hydrocarbon-proof gloves for aromatic hydrocarbons. In case of splashes or limited contact: Recommended material: Nitrile > 0,3 mm / > 60 minutes (EN 374-3). - In case of prolonged or repeated contact: Recommended materials: Fluoro polymer and PVA > 480 minutes (EN 374-3), all layer thickness; Nitrile 0,5 mm / > 480 minutes (EN 374-3). For more precise details about the choice of the appropriated glove, please contact the manufacturers of protective gloves.

Eye protection: Goggles, in case of risk of splashing.
Skin and body (other than hands) protection: Face mask, boots, hydrocarbon-proof clothing, safety boots, as applicable.
Hygienic work practices: Avoid contact with the skin. If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water. In case of contact with eyes, wash immediately in copious amounts of water while keeping eyelids spread apart for at least 15 minutes and consult a specialist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Colour: Yellow to amber.
Odour: Characteristic odour of oil
Density/specific gravity: 890 Kg/m3
Temperature: 15 °C
Flash point: > 230 ° C (ISO 2592)
Temperature of auto ignition: > 250 ° C (ASTM E 659)
Comments on auto ignition temperature: This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...).
Comments on explosivity: Not applicable
Solubility: Insoluble in water.
Solubility: In many common solvents.
Partition coefficient (log Pow): Log Pow > 6
Temperature : (20°C)
Viscosity: > 97.5 mm2/s
Temperature: 40 °C

10. STABILITY AND REACTIVITY

10.1 Stability: The product is stable at normal storage, handling and use temperatures.
10.2 Conditions to avoid: Heat (temperatures above flash point), sparks, ignition points, flames, static electricity
10.3 Materials to avoid: Avoid contact with strong oxidizing
10.4 Hazardous decomp. products: Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO2, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicology effects
Acute toxicity / Local effect:

Chemical	LD50 Oral	LD50 Dermal	LC50 Inhalation
DISTILLATES (PETROLEUM) solvent dewaxed heavy paraffinic	LD50 > 5000 mg/kg bw (rat-OECD 420)	LD50 > 5000 mg/kg bw (rabbit-OECD 402)	LD50 (4h) > 5 mg/l (aerosol) (rat-OECD 403)
DISTILLATES (PETROLEUM) hydrotreated heavy paraffinic	LD50 > 5000 mg/kg bw (rat-OECD 420)	LD50 > 5000 mg/kg bw (rabbit-OECD 402)	LD50 (4h) > 5 mg/l (aerosol) (rat-OECD 403)

Inhalation, comments: not classified. Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract.
Skin contact, comments: not classified.
Ingestion, comments: not classified. No important effect observed. in case of ingestion of larger amounts: abdominal pain, diarrhoea, ...
Sensitization: To our knowledge, the product does not a cause aggravated sensitivity.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Accute aquatic toxicity component information

Chemical name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
DISTILLATES (PETROLEUM) solvent dewaxed heavy paraffinic		EL50 (48 h) > 10000 mg/l (Daphana magna – OECD 202)	EL50 (96 h) > 100 mg/l (Oncorthynchus mykiss– OECD 203)	
DISTILLATES (PETROLEUM) hydrotreated heavy paraffinic	EL50 (48 h) >100 mg/l (Pseudokirchnerella subcapitea – OECD 201)	EL50 (48 h) > 10000 mg/l (Daphana magna – OECD 202)	EL50 (96 h) > 100 mg/l (Oncorthynchus mykiss– OECD 203)	

Chronic aquatic toxicity component information

Chemical name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
DISTILLATES (PETROLEUM) solvent dewaxed heavy paraffinic		NOEL (21d) 10 mg/l (Daphana magna – OECD 211)	NOEL (14/28d) > 1000 mg/l (Oncorthynchus mykiss – QSAR Petrotox)	
DISTILLATES (PETROLEUM) hydrotreated heavy paraffinic		NOEL (21d) > 1000 mg/l (Daphana magna – QSAR Petrotox)	NOEL (14/28d) > 1000 mg/l (Oncorthynchus mykiss – QSAR Petrotox)	

Effects on terrestrial organism: No information available.
12.2 Persistence and Degradability: Inherently biodegradable.
12.3 Bio accumulative potential: No information available. Iog Pow not applicable.

12.4 Mobility in soil. Given its physical and chemical characteristic, the product generally shows low soil mobility. Air: Loss by evaporation is limited. Water: Insoluble, The product spreads on the surface of the water.
12.5 Results on PBT and vpvB assessment: this substance is considered not to be PBT and vPvB.

13. DISPOSAL CONSIDERATIONS

Waste disposal: The recommended method is recycling or incineration in an approved installation
Disposal of contaminated packaging: Empty packaging should be taken to an approved waste handling site for recycling or disposal.
EWC Waste disposal N°: According to the European Wastes Catalogue, Waste Codes are not product specific., but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste codes are the only suggestions: 13 08 99..

14. TRANSPORT INFORMATION

Not concerned by the regulatory below.
Road (ADR) / Rail (RID): not regulated
Transport by barge (ADN): not regulated
Marine (IMO-IMDG): not regulated
Air (ICAO/IATA): not regulated

15. REGULATORY INFORMATION

15.1 Safety, health and environmental / legislation specific for the substance or mixture: European Union
15.2 International Inventories: EINECS/ELINCS – Complies / TSCA - Complies / DSL Complies / ENCS - complies / IECSC - complies / KECL Complies / PICCS complies / AICS complies / NZiOC Complies.

16. OTHER INFORMATION

For France, in case of poisoning call the Antipoison Centre (if possible in your area) and/or the SAMU (15), see ORFILA number below – Tel: Angers 02.41.48.21.21 - Bordeaux 05.56.96.40.80 - Lille 03.20.44.44.44 - Lyon 04.72.11.69.11 - Marseille 04.91.75.25.25 – Nancy 03.83.32.36.36 - Paris 01.40.05.48.48 - Rennes 02.99.59.22.22 - Strasbourg 03.88.37.37.37 - Toulouse 05.61.77.74.47

This safety sheet complies with the requirements of Regulation (EC) N° 1907/2006.

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk.
The information given herein in no way dispenses the user from knowing and applying all the provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive.
It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

1. Exposure scenario

Description of uses

Sector of use

SU3 - Industrial Use. For calibration of laboratories analysers

Process category

PROC1 - Use in closed system, no probability of exposure

Environmental release category

ECR7 - Industrial use of substances in closed systems

1. Operational conditions and risk management measures

2.1 Control of environmental exposure

Product Features

The substance is mainly hydrophobic UVCB

Amounts used

250ml to 1000ml per test

Environmental factors that are not influenced by risk management

Local dilution factor in fresh water: 10

Technical conditions and process-level measures to prevent emissions

Current practices vary between sites and laboratories, so conservative process release estimates are used.

Conditions and measures for external treatment of waste for disposal

The treatment and external feeding of waste must comply with applicable local and / or national regulations.

2.2 Control of workers' exposure

Product Features

Physical state

Liquid, vapour pressure 0.5 - 10 kPa at normal temperature and pressure

Frequency of use

Covers daily exposures according to the pace of analyses performed

Other operational conditions affecting exposure

Assumes use according to the conditions of analysis standards used. Assumes a good level of occupational hygiene is observed

2.2a Control of workers' exposure

Participating scenarios	Operational conditions and risk management measure
General measures (skin irritants) General measures (skin irritants)	Avoid direct contact with the skin. Identify the areas of skin in direct contact with the product. Wear gloves (tested according to EN374) if the hands are likely to be in contact with the substance. Clean up any skin contamination immediately. Immediately wash away any skin contamination. Provide basic staff training to avoid / reduce exposures and report any skin problems that may develop later
General exposures (Closed systems)	No other specific measures identified
General exhibitions (Open systems)	No other specific measures identified
Sampling	No other specific measures identified
Laboratory activities	No other specific measures identified
Filling small containers	No other specific measures identified
Equipment cleaning	No other specific measures identified
Storage of bulk products	No other specific measures identified

3. Exposure assessment and reference

Health

The ECETOC Risk Assessment Tool (TRA) was used to assess the risk of exposure in the workplace (unless otherwise indicated)

Environment

The hydrocarbon block method was used to calculate the environmental exposure rate with the Petrorisk model

4. Guide to compliance with the exposure scenario for downstream users (DU)

Health

The available hazard data do not allow the derivation of a DNEL for the risk of skin irritation. Management measures are established based on a qualitative characterization on health. The available hazard data do not require the establishment of a DNEL for health risks. Users are advised to take into account the national occupational exposure limit values or other equivalent values. In the event that other risk management measures / operational conditions are adopted, users must ensure that the risks are controlled at least equivalent levels.

Environment

The advice provided is based on assumed operating conditions, which may not apply to all sites, so scaling may be necessary to define appropriate site-specific risk management measures. To achieve the necessary air removal efficiency, use on-site technologies. More details on control and scaling technologies are provided in the SpERC data sheet. More information on scaling and control technologies is available on the SpERC fact sheet (http://cefic.org/en/reach-for -industries-libraries.html)