

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

## SAFETY DATA SHEET

**Product:** BRIGHT STOCK 150 (PBS 33)

Revision: 01


Date: 06/03/2025

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### SECTION 1: IDENTIFICATION

GHS product identifier:	BRIGHT STOCK 150 (PBS 33)
Other means of identification:	BST904
Recommended use of the chemical and restrictions on use:	Formulation of finished lubricating oils and lubricating greases.
Supplier's details:	REFINARIA DE MATARIPE S.A. <b>Address:</b> ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - São Francisco do Conde - BA - Brasil. <b>Phone number:</b> (71) 3511-8000 / (11) 5225-8900
Emergency phone number:	EMERGENCIall: 0800 729 2756 / (11) 94759-7282 (Whatsapp) (24h)

### SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture:	Acute Toxicity - Inhalation - Category 4.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.
<b>GHS label elements, including precautionary statements</b>	
Pictograms:	
Signal word:	WARNING
Hazard statement(s):	H332 Harmful if inhaled.
Precautionary statement(s):	<b>PREVENTION:</b> P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a with adequate ventilation.  <b>RESPONSE TO EMERGENCY:</b> P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P317 Get medical help.
Other hazards which do not result in classification:	The material has no other hazards.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>SUBSTANCE</b>	A complex combination of hydrocarbons obtained from solvent extraction and dewaxing processes. It consists predominantly of saturated hydrocarbons with carbon numbers in the range C15 to C50.
Chemical identity of the substance:	Basic lubricant oil.

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Common name(s), synonym(s) of the substance:	Lubricants.	
CAS number:	74869-22-0	
EC number:	278-012-2	
Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance:	Does not contain components that contribute to the hazard.	

### SECTION 4: FIRST-AID MEASURES

#### Description of necessary first-aid measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin:	Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this document.
Eye:	Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this document.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms/effects, acute and delayed:	May cause mild skin irritation with redness. Harmful if inhaled.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the material to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected area.

### SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:	Suitable: carbon dioxide (CO <sub>2</sub> ), foam, water mist and powder. Unsuitable: water jet directly.
Specific hazards arising from the chemical:	Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Vapors may be heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Containers may explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not smoke. Avoid exposure to the material. If necessary, use personal protective equipment as described in Section 8.
For emergency responders:	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining material with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place. Use tools that do not cause sparks to collect absorbed material.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

Precautions for safe handling:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Avoid contact with incompatible materials.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom.

#### Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	It is not expected that the material presents a fire or explosion hazard. Use personal protective equipment as described in Section 8.
Conditions for safe storage, including any incompatibilities:	Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures. It is not necessary addition of stabilizers and antioxidants to ensure the durability. Keep away from incompatible materials.
Packaging compatibilities:	Similar to the original packaging.
Inadequate packaging materials:	There are not known unsuitable material.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Occupational exposure limit:	No occupational exposure limits are established.
Biological limit:	No biological indicators of exposure are established.
Other limits and values:	No other limits and values are established.
Appropriate engineering controls:	Provide ventilation combined with local exhaust, especially when product vapours/mists are formed. It is recommended to make emergency showers and eye wash facilities available in the work area.

#### Individual protection measures, such as personal protective equipment (PPE)

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Eye/face protection:	Wide-view glasses with splash protection.
Skin protection:	Safety shoes and safety clothing to protect the whole body from chemical splashes. Protective gloves against chemicals such as PVC.
Respiratory protection:	Use of respirator with filter against vapors and organic mists is recommended for average exposures above half the TLV-TWA. In cases where exposure exceeds 3 times the TLV-TWA value, use a self-contained, full facepiece, air-supplied respirator (SCBA) operated in positive pressure mode. Follow guidance from the Respiratory Protection Program (PPR), 4th ed. São Paulo: Fundacentro, 2016.
Thermal hazards:	It does not present thermal hazards.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid, limpid.
Colour:	Colorless to yellow.
Odour:	Odorless.
Melting point/freezing point:	0 °C (32 °F).
Boiling point or initial boiling point and boiling range:	300 to 800 °C (572 to 1472 °F).
Flammability:	Not flammable.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	≥ 220 °C (428 °F) - Open cup.
Auto-ignition temperature:	> 360 °C (680 °F).
Decomposition temperature:	> 400 °C (752 °F).
pH:	Not applicable.
Kinematic viscosity:	34.8 mm²/s at 100 °C (212 °F).
Solubility:	Immiscible in water. Soluble in organic solvents.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	666.5 Pa at 25 °C (77 °F).
Density and/or relative density:	Absolute density: 0.81 to 0.97 g/cm³ at 15 °C (59 °F).
Relative vapour density:	Not available.
Particle characteristics:	Not applicable.

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Other information: Distillation range: 470 to 600°C at 760 mmHg.  
Volatile part: < 0.01% (w/w) at 25°C.  
Benzene content: <0.01% mass.

### SECTION 10: STABILITY AND REACTIVITY

Reactivity: Reactivity is not to be expected under normal conditions of temperature and pressure.

Chemical stability: Stable product under normal conditions of temperature and pressure.

Possibility of hazardous reactions: There are not known hazardous reactions with the material.

Conditions to avoid: Elevated temperatures and contact with incompatible materials.

Incompatible materials: Oxidizing agents.

Hazardous decomposition products: Light spirits and coke. In combustion, it can release irritating and toxic gases such as hydrogen sulfide, carbon monoxide and carbon dioxide.

### SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Product not classified as acute toxic by oral and dermal.  
Harmful if inhaled.  
LD<sub>50</sub> Oral (rats): > 5000 mg/kg.  
LD<sub>50</sub> Dermal (rats): >2000 mg/kg.  
LC<sub>50</sub> Dusts and mists (rats, 4h): 2.18 mg/L.

Skin corrosion/irritation: May cause mild skin irritation with redness.

Serious eye damage/irritation: It is not expected to cause eye irritation.

Respiratory or skin sensitization: It is not expected to present respiratory or skin sensitization.

Germ cell mutagenicity: Not classified for germ cell mutagenicity.  
In vitro studies have shown that the product has no mutagenic potential.

Carcinogenicity: Not classified for carcinogenicity.  
According to IPIECA, the IP 346 test results have a strong correlation with the results of epidermal carcinogenicity bioassays. Petroleum substances that show as a result for IP 346 < 3% DMSO (w/w) are not carcinogenic to the skin.  
DMSO extract (IP 346) of 1.7 wt%.

Reproductive toxicity: Not classified for reproductive toxicity.  
A study carried out in rats showed that the product has no toxic potential for reproduction.

STOT - Single exposure: It is not expected to exhibit specific target organ toxicity by single exposure.

STOT - Repeated exposure: It is not expected to exhibit specific target organ toxicity on repeated exposure.

Aspiration hazard: Not classified for aspiration hazard.  
The kinematic viscosity is greater than 20.5 cSt at 40°C.

### SECTION 12: ECOLOGICAL INFORMATION

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Ecotoxicity:	It is not expected to be ecotoxic. LC <sub>50</sub> ( <i>Pimephales promelas</i> , 96 h): > 100 mg/L; EC <sub>50</sub> ( <i>Daphnia magna</i> , 48 h): > 100 mg/L.
Persistence and degradability:	It has persistence and is not considered rapidly degradable. Degradability rate: 31% in 28 days.
Bioaccumulative potential:	Due to the lack of data, bioaccumulative potential in aquatic organisms is not expected.
Mobility in soil:	Low mobility in soil is expected.
Other adverse effects:	The release of large amounts of product can cause undesirable environmental effects, such as the reduction of oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating and consequent suffocation of animals. The release of large amounts can cause undesirable environmental effects, such as the decrease in oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating and consequent suffocation of animals.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.  
Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

### SECTION 14: TRANSPORT INFORMATION

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	Not classified as hazardous for the road transportation.
Environmental hazards:	The product is not considered dangerous for the environment for land transport.
<b>Railway regulations:</b>	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
UN number:	Not classified as dangerous for rail transport.
Environmental hazards:	The product is not considered dangerous for the environment in rail transport.
<b>Sea:</b>	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	Not classified as hazardous for water transportation.
Environmental hazards:	It's not considered a marine pollutant for transportation.
<b>Air:</b>	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	Not classified as dangerous for air transport.
Environmental hazards:	The product is not considered dangerous for the environment for air transport.
Special precautions for user:	Not applicable.

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Transport in bulk  
according to IMO  
instruments:

Consult regulations:

- International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;
- International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

### SECTION 15: REGULATORY INFORMATION

#### Safety, health and environmental regulations specific for the product in question

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

### SECTION 16: OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

#### Change control:

Version	Manufacture date	Changes
01	03/24/2023	Elaboration

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
CAS - Chemical Abstracts Service;  
EC - European Community;  
EC<sub>50</sub>- Effective concentration of substance that causes 50 % of the maximum response;  
EEC - European Economic Community;  
IARC - International Agency for Research on Cancer;  
LC<sub>50</sub>- Lethal Concentration 50%;  
LD<sub>50</sub>- Lethal Dose 50%;  
NIOSH - National Institute for Occupational Safety and Health;  
PBT - Persistent, bioaccumulative and toxic;  
TLV - Threshold Limit Value;  
TWA - Time Weighted Average;  
UN - United Nations;  
vPvB - Very Persistent and very Bioaccumulative.

#### Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2025.

ECHA - EUROPEAN CHEMICAL AGENCY. Available in: <<http://echa.europa.eu/web/guest>>. Access at: Mar. 2023.

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GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available in: <<http://pubchem.ncbi.nlm.nih.gov/>>. Access at: Mar. 2023.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available in: <<http://monographs.iarc.fr/ENG/Classification/index.php>>. Access at: Mar. 2023.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY – INCHEM. Available in: <<http://www.inchem.org/>>. Access at: Mar. 2023.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.l.]: European chemical Bureau. Access at: Mar. 2023.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available in: <<http://www.cdc.gov/niosh/>>. Access at: Mar. 2023.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available in: <<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>>. Access at: Mar. 2023.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available in: <<http://chem.sis.nlm.nih.gov/>>. Access at: Mar. 2023.