

SAFETY DATA SHEET

Product: DESASFALTADO BRIGHT STOCK

Revision: 01

Date: 06/13/2024

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1 - IDENTIFICATION

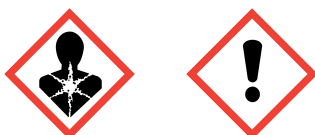
GHS Product identifier:	DESASFALTADO BRIGHT STOCK
Other means of identification:	AC.51D
Recommended use of the chemical:	Used as a lubricant. Raw material for industrial use.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	Acelen Address: ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - BA - Brasil. Phone number: (71) 3511-8000 / (11) 5225-8900
Emergency phone number:	EMERGENCIall: 0800 729 2756 / (11) 94759-7282 (Whatsapp) (24h)

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Acute Toxicity - Inhalation - Category 4; Reproductive Toxicity - Category 2; Specific Target Organ Toxicity – Repeated Exposure - Category 1.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

GHS label elements, including precautionary statements

Pictograms:



Signal word:	DANGER
Hazard statement(s):	H332 Harmful if inhaled. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to the stomach, to the bone marrow, to the kidneys, to the thymus, to the liver, to the lymphatic system and to the renal gland through prolonged or repeated exposure.
Precautionary statement(s):	PREVENTION: P203 Obtain, read and follow all safety instructions before use. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.
	RESPONSE TO EMERGENCY: P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P317 Get medical help. P318 IF exposed or concerned, get medical advice. P319 Get medical help if you feel unwell.

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STORAGE:

P405 Store locked up.

DISPOSITION:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: The product has no other hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE A complex combination of hydrocarbons obtained as the solvent soluble fraction from C3-C4 solvent deasphalting of a residue. Consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400°C (752°F).

Common chemical name: Residual oils (petroleum), solvent deasphalted.

Common name(s), synonym(s) of the substance: Base oil - unspecified.

CAS: 64741-95-3

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.

4 - FIRST-AID MEASURES

Description of necessary first-aid measures

Inhalation: Remove the victim to a well-ventilated area and keep at rest in a position that does not impede breathing. Contact a TOXICOLOGY INFORMATION CENTER or physician. Take this MSDS.

Skin: IN CASE OF CONTACT WITH SKIN (or hair): Immediately remove all contaminated clothing. Rinse the skin with water or take a shower. Contact a TOXICOLOGY INFORMATION CENTER or physician. Take this MSDS.

Eye: Rinse carefully with water for several minutes. If you wear contact lenses, remove them if that's easy. If eye irritation persists: consult a physician. Take this MSDS.

Ingestion: Wash the victim's mouth with plenty of water. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this MSDS.

Most important symptoms/effects, acute and delayed: Harmful if inhaled. Causes damage to the bone marrow, kidneys, liver, lymphatic system, renal gland, stomach and thymus through prolonged or repeated exposure.

Indication of immediate medical attention and special treatment needed, if necessary: Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, support measures such as correction of hydroelectrolytic and metabolic disturbances, in addition to respiratory assistance. In case of contact with the skin, do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing media: Appropriate: Compatible with all means of extinguishing.

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	Inappropriate: water jet directly.
Specific hazards arising from the chemical:	Combustion of the chemical or its packaging can form irritating and toxic gases such as carbon monoxide and carbon dioxide.
Special protective actions for fire-fighters:	Self-contained breathing apparatus (SCBA) with positive pressure and full protective clothing. Containers and tanks involved in the fire can be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Preventively remove all sources of ignition. Do not smoke. Avoid contact with the product. 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:	Prevent spilled product from reaching waterways and sewers.
Methods and materials for containment and cleaning up:	Use natural or spill containment barriers. Absorb the spilled product with sand or other inert material and place in a container for later appropriate disposal. For final disposal, proceed according to Section 13 of this MSDS. There is no distinction between the actions of large and small leaks for this product.

7 - HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling:	Handle in a well-ventilated area or with a general local exhaust/ventilation system. Avoid formation of vapors or mists. Avoid inhaling the product in case of formation of vapors or mists. Wear protective gloves, protective clothing, eye protection, face protection as directed in Section 8. 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:	The product is not expected to present a fire or explosion hazard.
Conditions for safe storage, including any incompatibilities:	Store in a ventilated place, protected from heat. Keep stored at room temperature not exceeding 35°C. 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.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit:	Not established.
Biological limit:	Not established.

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Other limits and values: Not 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)

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.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid, viscous.

Color: Greenish yellow.

Odour: Characteristic.

Melting point/freezing point: 36 °C (96.8 °F) at 101.325 kPa.

Boiling point or initial boiling point and boiling range: 341 to 665 °C (645.8 to 1229 °F) at 101.325 kPa.

Flammability: Not flammable.

Lower and upper explosion limit/flammability limit: Not available.

Flash point: ≥ 98 °C (208.4 °F) - Closed cup.

Auto-ignition temperature: > 350 °C (662 °F).

Decomposition temperature: Not available.

pH: Not applicable.

Kinematic viscosity: 34 to 45 mm²/s at 100 °C (212 °F).

Solubility(ies): Partially miscible in water.

Partition coefficient n-octanol/water (log value): log *K*_{ow}: 7 (calculated).

Vapour pressure: < 5 mmHg (< 666.61 Pa) at 25 °C (77 °F).

Relative vapour density: Not available.

Density and/or relative density: Absolute density: 0.93 g/cm³ at 20 °C (68 °F).

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Particle characteristics: Not applicable.

Other information: Not applicable.

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. Contact with incompatible materials.

Incompatible material: Oxidizing agents.

Hazardous decomposition products: When heated to temperatures in excess of 370°C it can produce hydrogen sulfide, as proven in the laboratory. Complete combustion can form sulfur and nitrogen oxides, as well as water and carbon dioxide.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity: Product not classified as acute toxic by oral and dermal. Harmful if inhaled.
 LC₅₀ Dusts and mists (rats, 4h): 2.18 mg/L.
 LD₅₀ Oral (rats): > 5000 mg/kg.
 LD₅₀ Dermal (rabbits): > 5000 mg/kg.

Skin corrosion/irritation: It is not expected to cause skin irritation.

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. According to IPIECA, petroleum substances that present as a result for Mutagenicity index > 1.0 are considered potentially mutagenic. Ames Test: 0.25 (ASTM E 1687-10).

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 present as a result for IP 346 > 3% DMSO (w/w) are potentially carcinogenic. DMSO extract (IP 346): 2.2% (w/w).

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

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

STOT - Repeated exposure: Causes damage to the bone marrow, kidneys, liver, lymphatic system, renal gland, stomach and thyme through prolonged or repeated exposure.

Aspiration hazard: It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity: It is not expected to be ecotoxic.
 LC₅₀ (*Pimephales promelas*, 96 h): > 100 mg/L;

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	<p>EC₅₀ (<i>Daphnia magna</i>, 48 h): > 100 mg/L; NOEC (<i>Daphnia magna</i>, 21 d): > 1 mg/L.</p>
Persistence and degradability:	It has persistence and is not considered rapidly degradable. Degradation rate: 31% in 28 days.
Bioaccumulative potential:	Presents high bioaccumulative potential in aquatic organisms. BCF: 0.4 to 6280 (calculated) log K _{ow} : 7 (calculated).
Mobility in soil:	Not determined.
Other adverse effects:	<p>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.</p> <p>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.</p>

13 - DISPOSAL CONSIDERATIONS

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

14 - TRANSPORT INFORMATION

Road:	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.
Railway regulations:	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.
Sea:	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.
Air:	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.
Maritime transport in bulk according to IMO	Consult regulations:

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

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instruments:

- 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.

15 - REGULATORY INFORMATION

Federal Decree No. 10,088, of November 5, 2019.
Regulatory Standard No. 26 (Safety Signs), from the Ministry of Labor and Social Security.
ABNT-NBR 14725 Standard.

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	03/27/2023	Elaboration

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
BCF - Bioconcentration factor;
CAS - Chemical Abstracts Service;
EC - European Community;
EC₅₀ - Effective concentration of substance that causes 50 % of the maximum response;
EEC - European Economic Community;
IARC - International Agency for Research on Cancer;
K_{ow} - Octanol-water partition coefficient;
LC₅₀ - Lethal Concentration 50%;
LD₅₀ - Lethal Dose 50%;
NIOSH - National Institute for Occupational Safety and Health;
NOEC - No Observed Effect Concentration;
TLV - Threshold Limit Value;
TWA - Time Weighted Average.

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, 2023.

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

GESTIS - SUBSTANCE DATABASE. Available at: < <http://gestis->

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

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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 at: <http://pubchem.ncbi.nlm.nih.gov/>. Access in: Mar. 2023.

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

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

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.1.]: European chemical Bureau. Available at: <http://ecb.jrc.ec.europa.eu>. Access in: Mar. 2023.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <http://www.cdc.gov/niosh/>. Access in: 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 at: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: Mar. 2023.

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