

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

# SAFETY DATA SHEET

**Product:** ECOCOOL DURANT 71 BF

Revision: 2

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## 1 - IDENTIFICATION

GHS Product identifier:	ECOCOOL DURANT 71 BF	US Distributor
Other means of identification:	304010	Fuchs Lubricants Co. 17050 Lathrop Avenue Harvey, IL 60426 (708) 333-8900 (800) 255-3924 24 hrs Emergency
Recommended use of the chemical:	SOLUBLE CUTTING FLUID.	
Restrictions on use:	There are not known restrictions on use of the product.	
Supplier's details:	FUCHS LUBRIFICANTES DO BRASIL LTDA.	
Address:	Via de acesso João de Góes, 1110 CEP: 06422-150, Barueri - SP - BR	
Phone number(s):	(11) 4707-0510	
Emergency phone number:	(11) 4707-0510	

## 2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Acute Toxicity - Oral - Category 4 Eye Damage/Irritation - Category 1 Hazardous to the Aquatic Environment - Acute Hazard - Category 2 Hazardous to the Aquatic Environment - Chronic Hazard - Category 2 Skin Corrosion/Irritation - Category 1B
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):	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H411 Toxic to aquatic life with long lasting effects.
Precautionary statement(s):	<b>PREVENTION:</b> P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.  <b>RESPONSE TO EMERGENCY:</b> P301 + P312 IF SWALLOWED: Call a POISON CENTER or a doctor, if you feel unwell. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or a doctor.  
P321 Specific treatment.  
P330 Rinse mouth.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.

### 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. THE DANGERS PRESENT IN THIS DOCUMENT ARE IN  
RELATION TO THE PRODUCT WITHOUT DILUTION.

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

#### MIXTURE

Components  
contributing to the  
hazard:

Distillates (petroleum). hydrotreated heavy naphthenic (CAS 64742-52-5): 30.0 - 70.0% <sup>1</sup>;  
Industrial secret 1: 5.0 - 10.0% (Classification: H301; H314; H410);  
Industrial secret 2: 5.0 - 10.0% (Classification: H227; H303; H312; H314; H402);  
Industrial secret 3: <1.0% (Classification: H318; H401; H412);  
Diethylene glycol butyl ether (CAS 112-34-5): <0.5% <sup>2</sup>;  
Industrial secret 4: <0.5% (Classification: H290; H314; H335) <sup>3</sup>;  
Industrial secret 5: <0.5% (Classification: H302; H315; H317; H318; H400).

<sup>1</sup>Ingredient not classified as hazardous by the Classification System used, but has an established occupational exposure limit, according to section 8.

<sup>2</sup>The ingredient does not contribute to the hazard but has an established occupational exposure limit, according to section 8.

<sup>3</sup>The hazards arising from the inhalation of this ingredient are not parameters for the classification of the mixture, since, both the physico-chemical characteristics and the adequate understanding of specialists, when a solid ingredient in the form of powder is diluted in a liquid mixture, it's not biologically available to cause its harms.

### 4 - FIRST-AID MEASURES

#### Routes of exposure

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 SDS.
Skin:	Wash exposed skin immediately with sufficient amount of water to remove the material. Take off contaminated clothing or accessories. In case of smaller contact with skin, avoid spreading to other areas. Contact a doctor. Bring this SDS.
Eye:	Wash the eyes with sufficient amount of water immediately for several minutes, keeping the eyes opened. In case of use of contact lenses, remove them, if possible. Keep washing. Contact a doctor. Bring this SDS.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. Contact immediately a doctor. Bring this SDS.
Most important symptoms/effects, acute	Causes severe skin burns and eye damage with Pain, blistering and peeling. Causes serious eye damage with Burning, tearing and pain. Harmful if swallowed.

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and delayed:

Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product 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.
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### 5 - FIRE-FIGHTING MEASURES

Extinguishing Media:	Appropriate: Compatible with carbon dioxide (CO <sub>2</sub> ), foam, water mist and powder. Inappropriate water jet directly.
Specific hazards arising from the chemical:	The combustion of the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon 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.

### 6 - ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel:	Do not smoke. Avoid exposure to the product. If necessary, use personal protective equipment as described in Section 8.
<b>For emergency service personnel:</b>	Isolate leakage from ignition sources preventively.
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 product 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.

### 7 - HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling of the substance or mixture:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation.
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 product presents a fire or explosion hazard. Use personal protective equipment as described in Section 8.
Adequate conditions:	Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures.
Packaging compatibilities:	Similar to the original packaging.
Inadequate packaging materials:	There are not known unsuitable material of the product.

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### 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Occupational exposure limit: The values below apply to workplaces.  
- Diethylene glycol butyl ether (CAS 112-34-5):  
TLV - TWA (ACGIH, 2015): 10 ppm (FIV).  
- Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5):  
TLV - TWA (ACGIH, 2014): 5mg/m<sup>3</sup>.

Biological limit: Not established

Other limits and values: Not established

Appropriate engineering controls: Promote mechanical ventilation and direct exhaust system to the outside environment. These measures help reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the product below occupational exposure limits indicated.

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

Eye/face protection: Safety glass side shields.

Skin protection: Closed shoes and suitable protective clothing. PVC, nitrile or butyl rubber protective gloves.

Respiratory protection: Specific respiratory protective is not required, however, in case of continuous exposure to high concentrations of respirable fraction of the product is recommend the use of respiratory protection.

Thermal hazards: It does not present thermal hazards.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid.

Color: Not available.

Odour: Characteristic.

Melting point/freezing point: Not available.

Boiling point or initial boiling point and boiling range: Not available.

Flammability: Not applicable.

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

Flash point: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

pH: 9 to 10 (3%).

Kinematic viscosity: Not available.

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Solubility:	Miscible in water.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Relative vapour density:	Not available.
Density and/or relative density:	0.92 at 20 °C (68 °F).
Particle characteristics:	Not available.
Other information:	Not applicable.

### 10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure
Stability:	Stable product under normal temperature and pressure conditions.
Possibility of hazardous reactions:	There are not known hazardous reactions with the product.
Conditions to avoid:	Elevated temperatures. Contact with incompatible materials.
Incompatible material:	Acids, Compounds with high affinity for hydroxyl groups, Oxidizing Agents, Reducing Agents, Strong base and Strongly oxidizing agents.
Hazardous decomposition products:	There are no known hazardous decomposition products.

### 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by dermic. Harmful if swallowed. ATEmix (Oral): 1912.952 mg/kg. ATEmix (Dermic): > 5000 mg/kg. Information regarding to : - <u>Industrial secret 1</u> : LD <sub>50</sub> (Oral, rats): 240 mg/Kg. - <u>Industrial secret 2</u> : LD <sub>50</sub> (Oral, rats): 2813 mg/Kg.
Skin corrosion/irritation:	Causes severe skin burns and with pain, blistering and peeling. pain, blistering and flaking.
Serious eye damage/irritation:	Causes serious with burning, tearing and pain. burn, tearing and pain.
Respiratory or skin sensitization:	It is not expected that the product presents respiratory or skin sensitization.
Germ cell mutagenicity:	It is not expected that the product presents germ cell mutagenicity.
Carcinogenicity:	It is not expected that the product presents carcinogenicity.
Reproductive toxicity:	It is not expected that the product presents reproductive toxicity.

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STOT - Single exposure:	It is not expected that the product presents specific target organ toxicity by single exposure.
STOT - Repeated exposure:	It is not expected that the product presents specific target organ toxicity by repeated exposure.
Aspiration Hazard:	It is not expected that the product presents aspiration hazard.

### 12 - ECOLOGICAL INFORMATION

Toxicity:	<p>Toxic to aquatic life with long lasting effects.</p> <p>Information regarding to :</p> <ul style="list-style-type: none"><li>- <u>Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5):</u> LC<sub>50</sub> (<i>Fish</i>, 96h): &gt; 100 mg/L.</li><li>- <u>Industrial secret 1:</u> NOEC (<i>Scenedesmus subspicatus</i>, 72h): 0.016 mg/L; ErC<sub>50</sub> (<i>Scenedesmus subspicatus</i>, 72h): 0.38 mg/L; LC<sub>50</sub> (<i>Danio rerio</i>, 96h): 62 mg/L; EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): 8 mg/L.</li><li>- <u>Industrial secret 2:</u> LC<sub>50</sub> (<i>Leuciscus idus</i>, 96h): &gt; 100 mg/L; EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): &gt; 100 mg/L; ErC<sub>50</sub> (<i>Scenedesmus subspicatus</i>, 72h): 32.7 mg/L.</li><li>- <u>Industrial secret 3:</u> NOEC (<i>Fish</i>, 9 p.m.): &gt;0.1 - 1 mg/L (estimated); EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): 1.0 - 10.0 mg/L (estimated); ErC<sub>50</sub> (<i>Green algae</i>, 72h): 1.0 - 10.0 mg/L (estimated); LC<sub>50</sub> (<i>Fish</i>, 96h): 1.0 - 5.0 mg/L (estimated).</li><li>- <u>Diethylene glycol butyl ether (CAS 112-34-5):</u> LC<sub>50</sub> (<i>Lepomis macrochirus</i>, 96h): &gt; 100 mg/L; EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): &gt; 100 mg/L; ErC<sub>50</sub> (<i>Desmodesmus subspicatus</i>, 96h): &gt; 100 mg/L.</li><li>- <u>Industrial secret 5:</u> LC<sub>50</sub> (<i>Amphiprion ocellaris</i>, 96h): 0.9 mg/L.</li></ul>
Persistence and degradability:	It is expected that the product presents persistence and it is not considered readily biodegradable.
Bioaccumulative potential:	<p>Presents low bioaccumulative potencial in aquatic organisms.</p> <p>Information regarding to :</p> <ul style="list-style-type: none"><li>- <u>Industrial secret 1:</u> log K<sub>ow</sub>: 3.5</li><li>- <u>Industrial secret 2:</u> BCF: 0.11</li></ul>
Mobility in soil:	Not determined.
Other adverse effects:	There are not known other environmental effects for this product.

### 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.

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### 14 - TRANSPORT INFORMATION

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	1760
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Dicyclohexylamine and Monoisopropanolamine)
Primary risk class or division:	8
Subsidiary risk class or division:	NA
Packing group:	II
<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:	1760
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Dicyclohexylamine and Monoisopropanolamine)
Primary risk class or division:	8
Subsidiary risk class or division:	NA
Packing group:	II
<b>Sea:</b>	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	1760
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Dicyclohexylamine and Monoisopropanolamine)
Primary risk class or division:	8
Subsidiary risk class or division:	NA
Packing group:	II
EmS:	F-A,S-B
Environmental hazards:	The product is considered a marine pollutant.
<b>Air:</b>	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	1760
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Dicyclohexylamine and Monoisopropanolamine)
Primary risk class or division:	8
Subsidiary risk class or division:	NA
Packing group:	II

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### 15 - REGULATORY INFORMATION

Federal Decree No. 2,657, of July 3, 1998; par Standard ABNT-NBR 14725; par Ordinance No. 229, of May 24, 2011 - Amends Regulatory Standard No. 26.

### 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.

Elaborated May 2020.

#### Texts of Hazard statements (H) mentioned in section 3:

H227 Combustible liquid  
H290 May be corrosive to metals  
H301 Toxic if swallowed  
H303 May be harmful if swallowed  
H312 Harmful in contact with skin  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H318 Causes serious eye damage  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life  
H401 Toxic to aquatic life  
H402 Harmful to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
H412 Harmful to aquatic life with long lasting effects.

#### Change Control :

Version	Publication Date	Changes
2	05/05/2020	Change in composition. Change in section: 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
ATEmix - Acute Toxicity Estimate of the mixture;  
BCF - Bioconcentration factor;  
CAS - Chemical Abstracts Service;  
EC - European Community;  
EC<sub>50</sub> - Effective Concentration 50%;  
EEC - European Economic Community;  
IARC - International Agency for Research on Cancer;  
Kow - Octanol/Water partition coefficient;  
LC<sub>50</sub> - Lethal Concentration 50%;  
LD<sub>50</sub> - Lethal Dose 50%;  
NIOSH - National Institute for Occupational Safety and Health;  
NOEC - No Observed Effect Concentration;  
TLV - Threshold Limit Value;  
TWA - Time Weighted Average;



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UN - United Nations.

**Bibliographic references:**

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 8th rev. ed. New York: United Nations, 2019.

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL 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, 2020.

EPI-USEPA - ESTIMATION PROGRAMS INTERFACE Suite - United States Environmental Protection Agency. Software. Access in: May. 2020.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>. Access in: May. 2020.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <http://monographs.iarc.fr/ENG/Classification/index.php>. Access in: May. 2020.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <http://www.inchem.org/>. Access in: May. 2020.

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

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <http://www.cdc.gov/niosh/>. Access in: May. 2020.

NITE - NATIONAL INSTITUTE OF TECHNOLOGY AND EVALUATION. Available at: [http://www.safe.nite.go.jp/english/ghs\\_index.html](http://www.safe.nite.go.jp/english/ghs_index.html). Access in: May. 2020.

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. Disponível em: < <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: May. 2020.

SIRETOX - INTERTOX - Sistema de Informações sobre Riscos de Exposição Química. Available at: <http://www.intertox.com.br/>. Access in: May. 2020.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available at: <http://chem.sis.nlm.nih.gov/>. Access in: May. 2020.