

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 1/9

1 - IDENTIFICATION

GHS Product identifier:	LIMPOFF ÁLCOOL 70º AEROSSOL
Other means of identification:	042325-00
Recommended use of the chemical:	Desinfetante de uso geral.
Specific restrictions on use:	There are not known restrictions on use of the product.
Supplier's details:	ANJO QUIMICA DO BRASIL LTDA
Address:	Acesso Estadual Rio Maina, nº 1165, Bairro Vila Macarini CEP: 88818-800, Criciúma - SC - BR
Phone number(s):	(48) 34618000 (48) 34618049
Emergency phone number:	CIATox/SC (Centro de Informação e Assistência Toxicológica de Santa Catarina) 08006435252

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Aerosols - Category 1 Serious eye damage/eye irritation - Category 2A Specific Target Organ Toxicity -Single Exposure - Category 3 - Narcotic and Category 3 - Respiratory
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):
H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s):
PREVENTION:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 2/9

RESPONSE TO EMERGENCY:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P319 Get medical help if you feel unwell.

P337 + P317 If eye irritation persists: Get medical help.

STORAGE:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

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

MIXTURE

Components contributing to the hazard:	Ethanol (CAS 64-17-5): 35.00 - 100 %; Butanol (CAS 71-36-3): 10.00 - 30.00 %; N-propanol (CAS 71-23-8): 5.00 - 15.00 %.
--	---

4 - FIRST-AID MEASURES

Routes of exposure

Inhalation:	Gases may cause dizziness and asphyxia. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Monitor respiratory function. If the victim shows difficulty breathing, then give oxygen. If necessary, apply artificial respiration. Consult a doctor. Bring this SDS.
-------------	--

Skin:	In case of contact of the product in pressurized form with the skin, it can cause injury or frostbite (frostbite). Wash exposed skin immediately with sufficient amount of water. Clothing adhered to the skin should be thawed in warm water before being removed. Consult a doctor. Bring this SDS.
-------	---

Eye:	In case of contact of the product in pressurized form with eyes, may occur injury or frostbite. Wash the eyes with sufficient amount of water immediately, keeping the eyes opened. In case of use of contact lenses, remove them, if possible. Keep washing. Contact a doctor. Bring this SDS.
------	---

Ingestion:	Not applicable.
------------	-----------------

Most important symptoms/effects, acute and delayed:	Causes serious eye irritation with redness and pain. May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing.
---	---

Indication of immediate medical	Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as
---------------------------------	---

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 3/9

attention and special treatment needed, if necessary: correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing Media:	Appropriate: carbon dioxide (CO ₂), water mist and powder. Inappropriate: water directly onto the burning product.
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. Very dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or flames of matches and cigarettes, welding operations, pilot lights and electric motors. Gases may be heavier than air and may accumulate in low or confined areas, such as sewers and basements. Can travel great distances causing retrogression of the flame or new fires both in open environments in as confined ones. 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:	Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without the use of appropriate clothing. Avoid exposure to the product. Stay in a safe place, with wind from behind. 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 dispersed gas reaches waterways or sewage system.
Method and materials for containment and cleaning up:	Release the contents slowly into the atmosphere. Stay downwind. Do not pour water directly into the leak point. Due to the product dispersion in the environment, it is recommended that the area is ventilated until the release site. For final destination, proceed pursuant to Section 13 of this SDS.

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 gases and aerosols formation. Avoid exposure to the chemical, since the effects may not be felt immediately.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.

Conditions for safe storage, including any incompatibilities

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 4/9

Technical measures for prevention of fire and explosion:	Keep away from heat, sparks, open flames and hot surfaces. - Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the product during transfers. Only use anti-sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation and lighting explosion proof. 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 and ignition sources.
Packaging compatibilities:	Similar to the original packaging.
Inadequate packaging materials:	There are not known unsuitable material of the product.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit:	The values below apply to workplaces. - <u>N-propanol</u>: OSHA - PEL - TWA: 200 ppm; 500 mg/m³; NIOSH - REL - TWA: 200 ppm; NIOSH - REL - STEL: 250 ppm; ACGIH - TLV - TWA: 100 ppm. - <u>Butanol</u>: OSHA - PEL - TWA: 100 ppm; 300 mg/m³; NIOSH - REL - Ceiling: 50 ppm; ACGIH - TLV - TWA: 20 ppm. - <u>Ethanol</u>: OSHA - PEL - TWA: 1000 ppm; 1900 mg/m³; NIOSH - REL - TWA: 1000 ppm; ACGIH - TLV - STEL: 1000 ppm.
Biological limit:	Not established.
Other limits and values:	- <u>Ethanol</u>: IDLH (NIOSH, 2010): 3300 ppm (LEL).
Appropriate engineering controls:	Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition 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 glasses.
Skin protection:	Closed shoes and suitable protective clothing. Appropriate protective gloves.
Respiratory protection:	A risk assessment should be performed for proper definition of respiratory protection, in view of the product use conditions.
Thermal hazards:	It does not present thermal hazards.

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 5/9

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect:	Gas, compressed.
Color:	Not applicable.
Odour:	Not available.
Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range:	Not applicable.
Flammability:	Not available.
Lower and upper explosion limit/flammability limit:	Not applicable.
Flash point:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not applicable.
pH:	Not available.
Kinematic viscosity:	Not applicable.
Solubility(ies):	Soluble in water.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not applicable.
Relative vapour density:	Not applicable.
Density and/or relative density:	Not available.
Particle characteristics:	Not applicable.
Other information:	Absolute density: 0.82 g/cm ³ .

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure
Stability:	Product is stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	Butanol: Reacts dangerously in contact with aluminum, strong reducing agents, acid chlorides and sulfur trioxides. Reacts on contact with metallic alkalis, releasing flammable hydrogen. Ethanol: May form explosive mixtures with air. Risk of explosion

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04 Date: 01/24/2022 Pages: 6/9

	on contact with alkali metals, alkalis and nitric acid.
Conditions to avoid:	Elevated temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	2,4-dinitrotoluene, Acetaldehyde, Acid chlorides, Alkali metals, Alkaline metals, Aluminum, Ammonia, Chromium trioxide, Ethylene oxide, Halogen, Isocyanates, Oxidizing Agents, Strong Acids, Strong reducing agents and Sulphuric acid.
Hazardous decomposition products:	There are no known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic. ATEmix Dermal: > 5000 mg/kg. ATEmix Vapours (4h): > 20 mg/L. ATEmix Oral: > 5000 mg/kg.
Skin corrosion/irritation:	Not classified for Skin Corrosion/Irritation.
Serious eye damage/irritation:	Causes serious eye irritation with redness 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.
STOT - Single exposure:	May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing.
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:	It is not expected that the product presents ecotoxicity.
Persistence and degradability:	It is not expected that the product presents persistence and degradability.
Bioaccumulative potential:	Presents low bioaccumulative potential in aquatic organisms.
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

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 7/9

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.

14 - TRANSPORT INFORMATION

Road: UN - United Nations: Model Regulations:
• Recommendations on the Transport of Dangerous Goods.

UN number: 1950

Proper shipping name: AEROSOLS

Primary risk class or division: 2.1

Subsidiary risk class or division: NA

Packing group: NA

Railway regulations: COTIF - Convention concerning International Carriage by Rail:
• Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

UN number: 1950

Sea: IMO - International Maritime Organization:
• IMDG Code - International Maritime Dangerous Goods Code.

UN number: 1950

Proper shipping name: AEROSOLS

Primary risk class or division: 2.1

Subsidiary risk class or division: NA

Packing group: NA

EmS: F-D,S-U

Environmental hazards: The product is not considered a marine pollutant for transportation.

Air: IATA - International Air Transport Association:
• DGR - Dangerous Goods Regulation.

UN number: 1950

Proper shipping name: AEROSOLS

Primary risk class or division: 2.1

Subsidiary risk class or division: NA

Packing group: NA

Special precautions Not applicable

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 8/9

for user:

15 - REGULATORY INFORMATION

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

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 January 2022.

Change Control:

Version	Elaboration	Changes
04	01/24/2022	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;
CAS - Chemical Abstracts Service;
Ceiling - The concentration that should not be exceeded during any part of the working exposure.
EC - European Community;
EEC - European Economic Community;
IDLH - Immediately Dangerous to Life or Health;
LEL - Lower Explosive Limit;
NIOSH - National Institute for Occupational Safety and Health;
OSHA - Occupational Safety & Health Administration;
PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
STEL - Short Term Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
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 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, 2020.

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

SAFETY DATA SHEET

Product: LIMPOFF ÁLCOOL 70º AEROSSOL

Revision: 04

Date: 01/24/2022

Pages: 9/9

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: Jan. 2022.