

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

SAFETY DATA SHEET

Product: ANJO SPRAY PAINT AEROSOL HIGH TEMPERATURE ALUMINIO

Revision: 01

Date: 09/15/2023

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1 - IDENTIFICATION

GHS Product identifier:	ANJO SPRAY PAINT AEROSOL HIGH TEMPERATURE ALUMINIO
Other means of identification:	047738-00
Recommended use of the chemical:	Aerosol paint manufactured with high quality products, indicated and approved for use in high temperature metal surfaces (up to 600°C), such as motorcycle exhausts and cars, fireplaces, etc.
Specific restrictions on use:	There are not known restrictions on use.
Supplier's details:	ANJO QUIMICA DO BRASIL LTDA Address: Acesso Estadual Rio Maina, nº 1165, Bairro Vila Macarini. CEP: 88818-800 - Brasil. Phone number: (48) 34618000 (48) 34618049 Email: sac@anjo.com.br
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; Acute Toxicity - Oral - Category 5; Skin Corrosion/Irritation - Category 2; Serious eye damage/eye irritation - Category 2B; Specific Target Organ Toxicity - Single Exposure - Category 3 - Narcotic; Hazardous to the Aquatic Environment - Acute Hazard - Category 2; Hazardous to the Aquatic Environment - Chronic Hazard - Category 3.
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.
 H303 May be harmful if swallowed.
 H315 Causes skin irritation.
 H320 Causes eye irritation.
 H336 May cause drowsiness or dizziness.
 H401 Toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s): **PREVENTION:**
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

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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.

P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCY:

P301 + P317 IF SWALLOWED: Get medical help.

P302 + P352 IF ON SKIN: Wash with plenty of water.

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.

P321 Specific treatment.

P332 + P317 If skin irritation occurs: Get medical help.

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

P362 + P364 Take off contaminated clothing and wash it before reuse.

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/122°F.

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:	Butano (CAS 106-97-8): 22.50 - 67.50 %; Xylene (CAS 1330-20-7): 12.50 - 37.50 %; Propano (CAS 74-98-6): 7.50 - 22.50 %.
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4 - FIRST-AID MEASURES

Description of necessary first-aid measures

Inhalation:	The gases can cause dizziness or suffocation. Remove the victim to a well-ventilated area and keep at rest in a position that does not impede breathing. Monitor respiratory function. If the victim is breathing hard, give oxygen. If necessary apply artificial respiration. Consult a doctor. Take this document.
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Skin: In case of contact of the product in pressurized form with the skin, injury or frostbite may occur. Immediately wash exposed skin with a sufficient amount of water. Clothes adhered to the skin must be thawed with warm water before being removed. Consult a doctor. Take this document.

Eye: In case of contact of the product in pressurized form with the eyes, injury or frostbite may occur. Immediately flush eyes with a sufficient amount of water, holding eyelids open. If you wear contact lenses, remove them if that's easy. Keep rinsing. Consult a doctor. Take this document.

Ingestion: Not applicable.

Most important symptoms/effects, acute and delayed: Causes skin irritation with redness, pain and dryness. Causes eye irritation with redness and tearing. May be harmful if swallowed. May cause drowsiness or dizziness, may cause dizziness and nausea.

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: carbon dioxide (CO₂), water mist and powder.
Inappropriate: water directly onto the burning material.

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.
Very dangerous when exposed to excessive heat or other ignition sources such as: sparks, open flames or match and cigarette flames, welding operations, pilot lights and electric motors. Gases can be denser than air and can collect in low or confined areas such as storm drains and basements. They can travel over long distances, causing flashback or new fires in both open and confined environments. Containers can explode if heated. Combustion of packaging can form irritating and toxic gases such as carbon monoxide and carbon dioxide.

Special protective actions for fire-fighters: If the load is involved in fire, isolate and evacuate the area within a minimum radius of 1600 meters. Wear self-contained breathing apparatus (SCBA) with positive pressure and full protective clothing. Containers and tanks involved in the fire must 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 unless wearing appropriate clothing. Avoid exposure to the product. Stay out of low areas, with the wind at your back. Use personal protective equipment as described in section 8.

For emergency responders: Isolate leak from ignition sources. Evacuate the area within a radius of at least 100 meters. Keep unauthorized persons away from the area. Stop the leak if it can be done without risk.

Environmental precautions: Prevent dispersed gas from reaching waterways and sewers.

Methods and Release the content slowly into the atmosphere. Stay downwind. Do not pour water

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materials for containment and cleaning up: directly on the leak point. Due to the dispersion of the product in the environment, it is recommended that the area be ventilated until the site is cleared. For final disposal, proceed according to Section 13 of this document.

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 gases and aerosols. Avoid exposure to product as effects may not be felt immediately. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.

General hygiene: Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

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 product receiver during transfers. Use only non-sparking tools. Avoid the build-up of electrostatic charges. Use explosion-proof electrical, ventilation and lighting equipment.

Conditions for safe storage, including any incompatibilities: Store in a dry, well-ventilated place away from sunlight. Keep the container closed. Keep stored at room temperature not exceeding 35°C. It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. 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: The values below apply to workplaces.

- Butano:
NIOSH - REL - TWA: 800 ppm; (1900 mg/m³);
ACGIH - TLV - STEL: 1000 ppm (EX).

- Xylene:
OSHA - PEL - TWA: 100 ppm; 435 mg/m³;
NIOSH - REL - TWA: 100 ppm (435 mg/m³);
NIOSH - REL - STEL: 150 ppm (655 mg/m³);
ACGIH - TLV - TWA: 20 ppm.

- Propano:
OSHA - PEL - TWA: 1000 ppm; (1800 mg/m³);
NIOSH - REL - TWA: 1000 ppm; (1800 mg/m³);
ACGIH - TLV - TWA: (D. EX).

EX: Explosion hazard: the substance is a flammable asphyxiant or excursions above the

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TLV® could approach 10% of the lower explosive limit;
D: Simple asphyxiant;
Biological limit: - Xylene;
ACGIH - BEI: Determinant: Methylhippuric acids in urine. Sampling Time: End of shift.
Index: 1.5 g/g creatinine.
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 the indicated occupational exposure limits. Maintain atmospheric concentrations of the constituents of the material 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 material use conditions.
Thermal hazards: It does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid, compressed.
Color: Aluminum.
Odour: Characteristic (odor threshold: characteristic).
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: -70 °C (-94 °F) - Open cup.
Auto-ignition temperature: Not available.
Decomposition temperature: Not applicable.
pH: Not available.
Kinematic viscosity: Not applicable.
Solubility(ies): Immiscible in water.

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Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not applicable.
Relative vapour density:	Not applicable.
Density and/or relative density:	Absolute density: 0.9 to 0.98 g/cm ³ .
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:	Xylene: Risk of explosion when in contact with nitric acid and uranium hexafluoride. May react dangerously with oxidizing agents and sulfuric acid.
Conditions to avoid:	Elevated temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	Barium peroxide, Chloro dioxide, Hydrogen fluoride, Nickel tetracarbonyl, Nitric acid, Oxidizing Agents, Oxygen, Oxygen difluoride, Sodium, Sulphuric acid and Xenon hexafluoride.
Hazardous decomposition products:	There are no known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Evidence in humans indicates that the product causes health damage by mouth and therefore the classification is not based on lethal dose data. Evidence in humans indicates that the product causes damage to health by dermal route and therefore the classification is not based on lethal dose data. Evidence in humans indicates that the product causes damage to health by inhalation and therefore the classification is not based on data of lethal concentration. May be harmful if swallowed. LD ₅₀ Oral (mice): 2119 mg/kg.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Serious eye damage/irritation:	Causes eye irritation with redness and tearing.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	It is not expected to be carcinogenic.
Reproductive	It is not expected to be reproductively toxic.

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toxicity:

STOT - Single exposure:	May cause drowsiness or dizziness, may cause dizziness and nausea. Information regarding to: - <u>Xylene</u> : At high concentrations may cause hypotension, tachycardia, vasodilation, dizziness, incoordination, headache, confusion, stupor and coma.
STOT - Repeated exposure:	It is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity:	Toxic to aquatic life. Harmful to aquatic life with long lasting effects. NOEC (<i>Oncorhynchus mykiss</i> , 56d): > 1 mg/L; NOEC (<i>Ceriodaphnia dubia</i> , 7d): > 1 mg/L; LC ₅₀ (<i>Danio rerio</i> , 96 h): > 100 mg/L; LC ₅₀ (Fish, 96 h): > 100 mg/L; LC ₅₀ (<i>Lepomis macrochirus</i> , 96 h): 19 mg/L; EC ₅₀ (Crustacea, 48 h): 8.5 mg/L.
Persistence and degradability:	It is expected that the product presents persistence and it is not considered readily biodegradable.
Bioaccumulative potential:	It is not expected to have a high bioaccumulative potential.
Mobility in soil:	Not determined.
Other adverse effects:	No other environmental effects known.

13 - DISPOSAL CONSIDERATIONS

Disposal methods

Treatment and disposal must be evaluated specifically for each product. Federal, state and municipal legislation should be consulted, including: Law No. 12,305, of August 2, 2010 (National Policy on Solid Waste). Keep product residues in their original packaging and properly closed. Disposal must be carried out 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

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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
Proper shipping name:	AEROSOLS
Primary risk class or division:	2.1
Subsidiary risk class or division:	NA
Packing group:	NA
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:	It's 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 for user:	Not applicable.

15 - REGULATORY INFORMATION

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

16 - OTHER INFORMATION

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This document was prepared based on current knowledge about the proper handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, in addition to forms of use other than those indicated, are the responsibility of the user. It is warned that the handling of any chemical substance requires prior knowledge of its dangers by the user. In the workplace, it is up to the company using the product to promote the training of its employees regarding the possible risks arising from exposure to the chemical product.

Change control:

Version	Manufacture date	Changes
01	09/01/2023	Elaboration

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
EC - European Community;
EC₅₀ - Effective concentration of substance that causes 50 % of the maximum response;
EEC - European Economic Community;
LC₅₀ - Lethal Concentration 50%;
NIOSH - National Institute for Occupational Safety and Health;
NOEC - No Observed Effect Concentration;
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:

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.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 9th rev. ed. New York: United Nations, 2021.

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: Sep. 2023.