

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 AGRICULTURAL CATERPILLAR YELLOW

Revision: 03

Date: 09/15/2023

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1 - IDENTIFICATION

GHS Product identifier:	ANJO SPRAY PAINT AEROSOL AGRICULTURAL CATERPILLAR YELLOW
Other means of identification:	047376-93
Recommended use of the chemical:	Aerosol paint made with high quality products, recommended and approved for use in the most diverse types of paint. Guarantees a good coverage, high yield and excellent drying.
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 2; Acute Toxicity - Oral - Category 5; Acute Toxicity - Inhalation - Category 4; 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 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: WARNING

Hazard statement(s):
H223 Flammable aerosol.
H229 Pressurized container: may burst if heated.
H303 May be harmful if swallowed.
H315 Causes skin irritation.
H320 Causes eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H402 Harmful to aquatic life.

Precautionary statement(s):
PREVENTION:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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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.
P317 Get medical help.
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 material has no other hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Components contributing to the hazard:	Butane (CAS 106-97-8): 30.00 - 50.00 %; Xylene (CAS 1330-20-7): 11.25 - 18.75 %; Propane (CAS 74-98-6): 11.25 - 18.75 %; Methyl ethyl ketone (CAS 78-93-3): 5.25 - 8.75 %; Toluene (CAS 108-88-3): 3.75 - 6.25 %.
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4 - FIRST-AID MEASURES

Description of necessary first-aid measures

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
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	difficulty breathing, then give oxygen. If necessary, apply artificial respiration. Consult a doctor. Bring this document.
Skin:	In case of contact of the material 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 document.
Eye:	In case of contact of the material 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 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. Harmful if inhaled. 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 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.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:	Appropriate: carbon dioxide (CO ₂), water mist and powder. Inappropriate: water directly onto the burning material.
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. 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 material. 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.
Methods and	Release the contents slowly into the atmosphere. Stay downwind. Do not pour water

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materials for containment and cleaning up: directly into the leak point. Due to the material 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 document. There is no distinction between the actions for large and small leaks for this material.

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 gases and aerosols formation. Avoid exposure to the chemical, since the effects may not be felt immediately. Avoid contact with incompatible materials.

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

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 material 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.

Conditions for safe storage, including any incompatibilities: Store in a well ventilated place, away from sunlight. Keep container closed. Keep away from high temperatures and ignition sources. 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.

- Butane:
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.

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

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- Methyl ethyl ketone:
OSHA - PEL - TWA: 200 ppm; 590 mg/m³;
NIOSH - REL - TWA: 200 ppm (590 mg/m³);
NIOSH - REL - STEL: 300 ppm (885 mg/m³);
ACGIH - TLV - TWA: 200 ppm;
ACGIH - TLV - STEL: 300 ppm.
- Toluene:
OSHA - PEL - TWA: (Z2);
NIOSH - REL - TWA: 375 mg/m³; 100 ppm;
NIOSH - REL - STEL: 560 mg/m³; 150 ppm;
ACGIH - TLV - TWA: 20 ppm.
- Black smoke:
OSHA - PEL - TWA: 3.5 mg/m³;
NIOSH - REL - TWA: 3.5 mg/m³ (CB);
ACGIH - TLV - TWA: 3 mg/m³ (I).

EX: Explosion hazard: the substance is a flammable asphyxiant or excursions above the TLV® could approach 10% of the lower explosive limit;
D: Simple asphyxiant;
Z2: See OSHA PEL table Z-2;
I: Inhalable particulate matter;
CB: without PAHs; when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen.

Biological limit:

- Xylene:
ACGIH - BEI: Determinant: Methylhippuric acids in urine. Sampling Time: End of shift. Index: 1.5 g/g creatinine.
- Methyl ethyl ketone:
ACGIH - BEI: Determinant: Methyl Ethyl Ketone in Urine. Sampling Time: End of shift. Index: 2 mg/L. Notation: Ns.
- Toluene:
ACGIH - BEI: Determinant: o-Cresol in Urine. Sampling Time: End of shift. Index: 0.3 mg/g creatinine. Notation: B; Determinant: Toluene in blood. Sampling Time: Prior to last shift of workweek. Index: 0.02 mg/L; Determinant: Toluene in urine. Sampling Time: End of shift. Index: 0.03 mg/L.

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals;
B: The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect the interpretation of the results. Such background concentrations are incorporated in the BEI value.

Other limits and values:

Not established.

Appropriate engineering controls:

Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition to the material. 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.

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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:	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:	-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.
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: 0.95 to 1.1 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.
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Chemical stability:	Stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	Butane: Reacts violently with oxidizing agents and nickel tetracarbonyl, with risk of fire or explosion. Forms an explosive mixture on contact with air. Xylene: Risco de explosão quando em contato com ácido nítrico e hexafluoreto de urânio. Pode reagir perigosamente com agentes oxidantes e ácido sulfúrico. Toluene: Reacts violently with strong oxidizing agents and strong acids, with risk of fire and explosion. Vapors may form explosive mixtures in contact with air. Propane: May react dangerously with risk of explosion in contact with chlorine dioxide. May react dangerously in contact with barium peroxide.
Conditions to avoid:	Elevated temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	Amines, Ammonia, Barium peroxide, Chloro dioxide, Isocyanates, Nickel tetracarbonyl, Nitric acid, Oxidizing Agents, Oxygen, Pyridines, Strong Acids, Strong base, Strong Oxidizing 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 by dermal. May be harmful if swallowed. Harmful if inhaled. ATEmix Dermal: > 5000 mg/kg. LC ₅₀ Gases (rats, 4h): > 2500 - ≤ 20000 µ L/L (ppm). LD ₅₀ Oral (rats): > 2000 - ≤ 5000 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 toxicity:	It is not expected to be reproductively toxic.
STOT - Single exposure:	May cause drowsiness or dizziness, may cause dizziness and nausea. Information regarding to: - <u>Xylene:</u> Em elevadas concentrações pode provocar hipotensão, taquicardia, vasodilatação, tonturas, incoordenação, cefaleia, confusão, estupor e coma. - <u>Toluene:</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.

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12 - ECOLOGICAL INFORMATION

Toxicity: Harmful to aquatic life.

Information regarding to:

- Xylene:

NOEC (*Oncorhynchus mykiss*, 56 d): > 1 mg/L;

NOEC (*Ceriodaphnia dubia*, 7 d): > 1 mg/L;

LC₅₀ (*Lepomis macrochirus*, 96 h): 19 mg/L;

EC₅₀ (Crustacea, 48 h): 8.5 mg/L.

- Toluene:

EC₅₀ (*Daphnia magna*, 48 h): 3.78 mg/L;

LC₅₀ (*Oncorhynchus kisutch*, 96 h): 5.5 mg/L.

Persistence and degradability: It is not expected to present persistence and degradability.

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

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.

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

Proper shipping name: AEROSOLS

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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

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

16 - OTHER INFORMATION

This document 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:

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Version	Manufacture date	Changes
03	09/15/2023	Change in section: 1 and 14.

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
EC₅₀ - Effective concentration of substance that causes 50 % of the maximum response;
LC₅₀ - Lethal Concentration 50%;
LD₅₀ - Lethal Dose 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.