

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

SAFETY DATA SHEET

Product: SYNTHETIC ENAMEL ER/PLUS JD 2000 GREEN

Revision: 09

Date: 06/23/2023

Pages: 1/11

1 - IDENTIFICATION

GHS Product identifier:	SYNTHETIC ENAMEL ER/PLUS JD 2000 GREEN
Other means of identification:	021937-00
Recommended use of the chemical:	Used for painting.
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 - SC - BRA
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:	Flammable Liquids - Category 3 Skin Corrosion/Irritation - Category 2 Serious eye damage/eye irritation - Category 2A Skin Sensitization - Category 1 Specific Target Organ Toxicity – Single Exposure - Category 3 - Respiratory Hazardous to the Aquatic Environment - Acute Hazard - Category 2 Hazardous to the Aquatic Environment - Chronic Hazard - Category 2.
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):
 H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):
PREVENTION:
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof electrical, ventilating and lighting equipment.

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P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
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.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCY:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
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.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use carbon dioxide (CO₂), foam, water mist and powder to extinguish.
P391 Collect spillage.

STORAGE:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

DISPOSITION:

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

Other hazards which do not result in classification:

It is not expected that product presents specific hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Components contributing to the hazard:	Distillates (petroleum). hydrotreated light (CAS 64742-47-8): 23.36 - 70.09 %; Fatty acids. c18-unsaturated. dimers. reaction products with polyethylenepolyamines (CAS 68410-23-1): 13.70 - 41.09 %; Xylene (CAS 1330-20-7): 5.85 - 17.56 %; Octoato de cálcio (CAS 136-51-6): 0.43 - 1.28 %; Zinc bis (2- ethylhexanoate) (CAS 136-53-8): 0.38 - 1.15 %; Ácido poliéster modificado (CAS Not applicable): 0.17 - 0.51 %;
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Naphtha aliphatic medium (CAS 64742-88-7): 0.17 - 0.50 %;
Titanium dioxide (CAS 13463-67-7): 0.09 - 0.27 % ¹;
Quartz (CAS 14808-60-7): 0.06 - 0.19 % ¹;
Scinex (CAS 96-29-7): 0.06 - 0.17 %;
Ethylbenzene (CAS 100-41-4): 0.01 - 0.04 % ²;
Isobutyl alcohol (CAS 78-83-1): 0.01 - 0.03 %.

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

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

4 - FIRST-AID MEASURES

Description of necessary first-aid measures

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 with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS.
Eye:	Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: 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. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Most important symptoms/effects, acute and delayed:	May cause an allergic skin reaction with pruritus and dermatitis. Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. May cause respiratory irritation, may cause cough and sneezing.
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.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:	Appropriate: carbon dioxide (CO ₂), foam, water mist and powder. Inappropriate: water directly onto the burning material.
Specific hazards arising from the chemical:	The combustion or 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. Can accumulate static charge by flow or agitation. Vapors from heated liquid can be ignited by static discharge. Vapors are heavier than air and tend to 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	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and

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actions for fire-fighters: 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 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. For final destination, proceed pursuant to Section 13 of this SDS.

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 vapors and mists 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

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.

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. Keep stored at room temperature not exceeding 35°C.

Packaging compatibilities: Similar to the original packaging.

Inadequate packaging materials: There are not known unsuitable material.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Occupational
exposure limit:

The values below apply to workplaces.

- Isobutyl alcohol:

OSHA - PEL - TWA: 100 ppm; 300 mg/m³;

NIOSH - REL - TWA: 50 ppm;

ACGIH - TLV - TWA: 50 ppm.

- Ethylbenzene:

OSHA - PEL - TWA: 100 ppm; 435 mg/m³;

NIOSH - REL - TWA: 100 ppm;

NIOSH - REL - STEL: 125 ppm;

ACGIH - TLV - TWA: 20 ppm.

- Quartz:

OSHA - PEL - TWA: (CFR1);

NIOSH - REL - TWA: 0.05 mg/m³ (Ca); (AA);

ACGIH - TLV - TWA: 0.025 mg/m³ (R).

- Titanium dioxide:

OSHA - PEL - TWA: 15 mg/m³ (TD);

NIOSH - REL - TWA: (Ca.AA);

ACGIH - TLV - TWA: 0.2 mg/m³ (NP.R); 2.5 mg/m³ (FP.R).

- Xylene:

OSHA - PEL - TWA: 100 ppm; 435 mg/m³;

NIOSH - REL - TWA: 100 ppm;

NIOSH - REL - STEL: 150 ppm;

ACGIH - TLV - TWA: 20 ppm.

R: Respirable particulate matter;

Ca: Potential occupational carcinogen.

AA: See NIOSH REL Appendix A;

CFR1: See CFR 1910.1053.

TD: Total dust;

NP: Nanoscale particles;

FP: Finescale particles.

Biological limit:

- Ethylbenzene:

ACGIH - BEI: Determinant: Sum of mandelic acid and phenylglyoxylic acid in urine.

Sampling Time: End of shift. Index: 0.15 g/g creatinine. Notation: Ns.

- Xylene:

ACGIH - BEI: Determinant: Methylhippuric acids in urine. Sampling Time: End of shift.

Index: 1.5 g/g creatinine.

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

Other limits and
values:

- Isobutyl alcohol:

IDLH (NIOSH, 2010): 1600 ppm.

Appropriate
engineering controls:

Promote direct mechanical ventilation and exhaust system to the outside environment. These measures help reduce exposure to product. 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.

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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:	Does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect:	Liquid.
Color:	Green.
Odour:	Characteristic.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	≅ 135 °C (275 °F).
Flammability:	Flammable.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	38 °C (100.4 °F) - Closed cup.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	Not available.
Kinematic viscosity:	Not available.
Solubility(ies):	Immiscible 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:	0.88 to 1.15.
Particle characteristics:	Not applicable.
Other information:	Not applicable.

10 - STABILITY AND REACTIVITY

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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. You could dangerously react with oxidizing agents and sulfuric acid. Toluene: Reacts violently with strong oxidizing agents and strong acids with risk of fire and explosion. Vapors may form an explosive mixture in contact with air. Diethylene glycol butyl ether: The product vapors may form an explosive mixture with air.
Conditions to avoid:	Elevated temperatures. Sources of ignition. Contact with incompatible materials.
Incompatible material:	Acids, Alcohols, Concentrated oxygen, Glycols, Ketones, Nitric acid, Oxidizing Agents, Oxygen, Perchloric acid, Strong base and Sulphuric acid.
Hazardous decomposition products:	There are not known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic. ATEmix Oral: > 5000 mg/kg. ATEmix Dermal: > 5000 mg/kg. ATEmix Vapours (4h): > 20 mg/L. ATEmix Dusts and mists (4h): > 5 mg/L.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Serious eye damage/irritation:	Causes serious eye irritation with redness and pain.
Respiratory or skin sensitization:	May cause an allergic skin reaction with pruritus and dermatitis. Not expected to cause respiratory sensitization. The ingredient Scinex, classified as skin sensitizer - category 1, is in concentration < 1% and does not contribute to this classification of the product.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	Not expected to be carcinogenic. The ingredient Scinex, classified as carcinogenic - category 2, is in concentration < 1% and does not contribute to this classification of the product.
Reproductive toxicity:	Not expected to be reproductively toxic. The ingredients Octoato de cálcio and Zinc bis (2- ethylhexanoate), classified as reproductive toxicants - category 2, are in concentrations < 3% and do not contribute to this classification of the product.
STOT - Single exposure:	May cause respiratory irritation, may cause cough and sneezing. Information regarding to: - <u>Xylene:</u> At high concentrations may cause hypotension, tachycardia, vasodilation, dizziness, incoordination, headache, confusion, stupor and coma.
STOT - Repeated exposure:	Not expected to exhibit specific target organ toxicity on repeated exposure.

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Aspiration hazard: Not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity: Toxic to aquatic life with long lasting effects.

Information regarding to:

- Distillates (petroleum), hydrotreated light:

EC₅₀ (*Daphnia magna*, 48): 1.4 mg/L;

LC₅₀ (*Oncorhynchus mykiss*, 96): 2-5 mg/L.

- Fatty acids, c18-unsaturated, dimers, reaction products with polyethylenepolyamines:

ErC₅₀ (*Pseudokirchneriella subcapitata*, 72): 4.11 mg/L.

- Xylene:

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

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

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

EC₅₀ (Crustacea, 48): 8.5 mg/L.

Persistence and degradability: The product presents persistence and it is not considered readily biodegradable.

Information regarding to:

- Fatty acids, c18-unsaturated, dimers, reaction products with polyethylenepolyamines:

Biodegradability rate: 15% in 28 days.

Bioaccumulative potential: Presents high bioaccumulative potential in aquatic organisms.

Information regarding to:

- Fatty acids, c18-unsaturated, dimers, reaction products with polyethylenepolyamines:

log *K*_{ow}: 8.71 to 9.04 (calculated).

Mobility in soil: Not determined.

Other adverse effects: There are not known other environmental effects.

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: 1263

Proper shipping name: PAINT RELATED MATERIAL

Primary risk class or 3

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division:

Subsidiary risk class or division: NA

Packing group: III

Railway regulations: COTIF - Convention concerning International Carriage by Rail:

- Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

UN number: 1263

Proper shipping name: PAINT RELATED MATERIAL

Primary risk class or division: 3

Subsidiary risk class or division: NA

Packing group: III

Sea: IMO - International Maritime Organization:

- IMDG Code - International Maritime Dangerous Goods Code.

UN number: 1263

Proper shipping name: PAINT RELATED MATERIAL

Primary risk class or division: 3

Subsidiary risk class or division: NA

Packing group: III

EmS: F-E,S-E

Environmental hazards: The product is considered a marine pollutant.

Air: IATA - International Air Transport Association:

- DGR - Dangerous Goods Regulation.

UN number: 1263

Proper shipping name: PAINT RELATED MATERIAL

Primary risk class or division: 3

Subsidiary risk class or division: NA

Packing group: III

Special precautions for user: Not applicable.

15 - REGULATORY INFORMATION

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

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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 June 2023.

Change control:

Version	Elaboration	Changes
09	06/23/2023	Change in section: 1, 2 and 11.

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
EC - European Community;
EC₅₀ - Effective Concentration 50%;
EEC - European Economic Community;
ErC₅₀ - Effective concentration that results in a 50% reduction in the growth rate;
IARC - International Agency for Research on Cancer;
IDLH - Immediately Dangerous to Life or Health;
K_{ow} - Octanol/Water partition coefficient;
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.

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

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

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NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <http://www.cdc.gov/niosh/>. Access in: Jun. 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: Jun. 2023.

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