

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: DILUENT for diamond paste PRAZIS

Internal Code: 200930

1.2 Relevant identified and discouraged uses

Recommendations for use: According to the product data sheet.

Not recommended uses: Those not specified.

1.3 Safety Data Sheet supplier information

ARO S.A.

Belgrano Avenue 369, (C1029AAD) Autonomous City of Buenos Aires - Argentina.

T: +54 11 4331 4503 - F: +54 11 4331 3572

1.4 Emergency telephone

Emergency number (24 hours): +54 9 11 5003 1590

SECTION 2 - HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION according to the Globally Harmonized System

This product does not meet the criteria to be classified in a hazard class under Resolution 801/2015 of the Superintendence of Labor Risks, under the Ministry of Production and Labor.

2.2 Label elements

Pictogram: NO PICTOGRAM.

Word of caution: NO WORD OF CAUTION

Hazard statements: None.

Cautionary advice:

P201 - Obtain instructions before use.

P202 - Do not handle before all safety precautions have been read and understood.

P280 - Wear gloves.

P501 - Dispose of contents and/or container in accordance with national and international regulations.

2.3 Other hazards

There are no other additional hazards of consideration in the classification.

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Prepared by:

CIQUIME

Approved by:

ARO S.A.

SECTION 3 - COMPOSITION / INFORMATION ON COMPONENTS

3.1 Substance

Propanediol; 1,2 dihydroxypropane; 1,2 propylene glycol (CAS 57-55-6): min. 94,5% - Not classified

3.2 Mixing

Not applicable.

SECTION 4 - FIRST AID

4.1 Description of first aid

General measurements:	Avoid exposure to the product and take appropriate protective measures. Consult a physician by carrying the safety data sheet.
Inhalation:	Move victim to an area with clean air. Keep at rest. If not breathing, give artificial respiration. Call physician.
Skin contact:	Wash the skin immediately with plenty of soap and water for at least 15 minutes.
Eye contact:	Immediately flush eyes with water for at least 15 minutes, and hold eyelids open. If you have contact lenses, remove them after 5 minutes and continue rinsing eyes. Consult a physician.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. Consult physician with label or safety data sheet. If victim is unconscious, call physician immediately. If vomiting occurs spontaneously, place victim on his side to reduce the risk of aspiration. Do not give victim anything to drink or eat.

4.2 Main symptoms and effects, both acute and delayed

Inhalation: may cause respiratory tract irritation.

Skin contact: may cause mild skin irritation.

Eye contact: may cause eye irritation.

Ingestion: Harmful if swallowed. May cause gastrointestinal distress.

4.3 Indication of any medical care and special treatment to be given immediately.

Note to physician: Consider specific treatment for glycols. For more information, consult a Poison Center.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder, foam, sand or carbon dioxide. Use extinguisher according to surrounding materials. DO NOT use direct water jets.

5.2 Specific hazards arising from the substance or mixture

Fire Hazard:

NON FLAMMABLE. Liquid will not readily ignite.

5.3 Recommendations for firefighters

5.3.1 Fire extinguishing instructions:

Spray the containers with water to keep them cool. Continue to cool the containers with water after the fire has been extinguished.

Prevent water used for fire control from entering watercourses, drains or springs.

5.3.2 Protection during firefighting:

Wear self-contained breathing apparatus. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; may not be effective in spill situations.

5.3.3 Hazardous decomposition products in case of fire:

In case of fire, it may release irritating and/or toxic fumes and gases, such as carbon monoxide and other substances resulting from incomplete combustion.

SECTION 6 - MEASURES IN CASE OF ACCIDENTAL SPILLAGE

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency services personnel

Avoid sources of ignition.

Evacuate personnel to a ventilated area.

6.1.2 For emergency personnel

Wear self-contained breathing apparatus. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; may not be effective in spill situations. Eliminate all ignition sources (no smoking, flares, sparks or flames in the hazard area). Evacuate people to a ventilated area. Ventilate immediately, especially in low areas where vapors may accumulate. Do not allow reuse of spilled product.

6.2 Environmental precautions

Contain spilled liquid with a dike or barrier. Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Contain and recover liquid when possible. Collect liquid product with sand, vermiculite, earth or inert absorbent material and then thoroughly clean the affected area. Dispose of water and collected residue in marked containers for disposal.

6.4 Reference to other sections

See Section 8 - Exposure Controls and Personal Protection, and Section 13 - Waste Considerations.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not eat, drink or smoke during handling. Avoid contact with eyes, skin and clothing. Wash hands after handling this product.

7.2 Conditions for safe storage, including possible incompatibilities

Storage conditions:	Store in a clean, dry and well ventilated area. Protect from sunlight. Keep containers and packages closed.
Packaging materials:	The one supplied by the manufacturer.
Incompatible products:	Oxidizing and non-oxidizing mineral acids, organic acids, azo and diazo compounds, isocyanates, nitrides, organic peroxides and hydroperoxides, epoxides, strong oxidizing agents and strong reducing agents.

7.3 Specific end uses

According to product data sheet.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

CMP (Res. MTESS 295/03):	N/A
CMP-CPT (Res. MTESS 295/03):	N/A
CMP-C (Res. MTESS 295/03):	N/A
TLV-TWA (ACGIH) :	N/A
TLV-STEL (ACGIH):	N/A
PEL (OSHA):	N/A
IDLH (NIOSH):	N/A
PNEC (water):	N/A
PNEC (sea):	N/A
PNEC-STP:	N/A

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Keep the workplace ventilated. Normal ventilation for normal manufacturing operations is generally adequate. Use local hoods during operations that produce or release large quantities of product. In low or confined areas provide mechanical ventilation. Provide showers and eyewash stations.

8.2.2 Personal protective equipment

Eye and face protection: Where necessary, wear safety glasses complying with EN 166.

Skin protection: When necessary, use impermeable protective gloves made of PVC, nitrile or butyl (complying with IRAM 3607-3608-3609 and EN 374), work clothes and chemical-resistant safety shoes.

Respiratory protection: Where necessary, use respiratory protection for organic vapors (type A). Pay particular attention to oxygen levels in the air. If large releases occur, use self-contained breathing apparatus (SCBA).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties information

Appearance:	Viscous liquid.
Color:	Transparent.
Odor:	N/A
Olfactory threshold:	N/A
pH:	6.0 - 8.0 (sol. 1%)
Melting/freezing point:	-60°C (-76°F)
Boiling point / boiling range:	186°C to 189°C (366.8°F to 372.2°F)
Evaporation rate:	N/A
Flash point:	104°C (219°F)
Flammability:	The product is not flammable.
Flammability limits:	2,6% - 12,6%
Vapor pressure (20°C):	17 Pa
Vapor density (air=1):	2,62
Density (25°C):	1,035 - 1,037 g/cm ³
Solubility (20°C):	Soluble in water.
Partition coefficient (logK _{o/w}):	-1,07
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity (cSt at 40°C):	N/A
Henry's constant (20°C):	N/A
Log K _{oc} :	N/A
Explosive properties:	Non-explosive. According to column 2 of Annex VII of REACH, this study is not necessary because there are no chemical groups associated with explosive properties in the molecule.

Oxidizing properties: According to column 2 of Annex VII of REACH, this study is not necessary because the substance, due to its chemical structure, cannot react exothermically with combustible materials.

9.2 Additional information

Other properties: None.

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No reactions or decomposition of the product are expected to occur under normal storage conditions. Does not contain organic peroxides. Not corrosive to metals. Does not react with water.

10.2 Chemical stability

The product is chemically stable and does not require stabilizers.

10.3 Possibility of hazardous reactions

Hazardous polymerization is not expected.

10.4 Conditions to avoid

Avoid high temperatures.

10.5 Incompatible materials

Oxidizing and non-oxidizing mineral acids, organic acids, azo and diazo compounds, isocyanates, nitrides, organic peroxides and hydroperoxides, epoxides, strong oxidizing agents and strong reducing agents.

10.6 Hazardous decomposition products

Irritating and toxic vapors may be released when heated. In case of fire, see Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There is no toxicity information on the product, but acute toxicity estimates are presented. Oral ETA-DL50 (calc.): > 5000 mg/kg

ETA-DL50 der (calc.): > 2000 mg/kg

ETA-CL50 inh. (calc.): > 5 mg/l

Dermal irritation (rabbit, stim.): non-irritating

Eye irritation (rabbit, stimulant): non-irritant.

Skin sensitization (guinea pig, estim.): not sensitizing

Respiratory sensitization (guinea pig, estim.): non-sensitizing

Mutagenicity, carcinogenicity and reproductive toxicity:

Carcinogenicity: Contains no components at concentrations greater than or equal to 0.1% that are classified as carcinogens by the International Agency for Research on Carcinogens. Mutagenicity: There are no components

in this product that classify as mutagenic according to GHS. Tox. Repr.: There are no components in this product that classify as toxic to reproduction according to GHS with effects on sexual function and fertility.

Teratogenicity: There are no components of this product classified as toxic for reproduction according to GHS with effects on the development of offspring.

Acute and delayed effects:

Routes of exposure: Inhalation, dermal and eye contact.

Inhalation: may cause respiratory tract irritation.

Skin contact: may cause mild skin irritation.

Eye contact: may cause eye irritation.

Ingestion: Harmful if swallowed. May cause gastrointestinal distress.

STOT-SE: There are no components of this product that are classified as target organ toxicants for single exposures according to GHS.

STOT-RE: There are no components of this product that classify as toxic to target organs after prolonged or repeated exposures according to GHS.

Aspiration: There are no components of this product that are classified as hazardous by aspiration according to GHS.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

There is no information on the ecotoxicity of the product, but ecotoxicity estimation calculations are presented.

ETA-CE50 (fish, calc., 96 h): > 100 mg/l

ETA-CE50 (inv., calc., 48 h): > 100 mg/l

ETA-CE50 (algae, calc., 72 h): > 100 mg/l

ETA-CSEO (fish, calc., 14 d): > 1 mg/l
ETA-CSEO (inv., calc., 14 d): > 1 mg/l

12.2 Persistence and degradability

BIODEGRADABILITY (OECD): The product is readily biodegradable.

12.3 Bioaccumulation potential

Log K_{ow} : -1.07

BIOACCUMULATION IN FISH - BCF (OECD 305): N/D

12.4 Mobility in the soil

LogKoc: N/A

HENRY CONSTANT (20°C): N/D Soluble in water, moves quickly.

12.5 PBT and vPvBm assessment results

This product does not meet the PBT criteria of Annex XIII of the REACH regulation. This product does not meet the vPvB criteria of Annex XIII of the REACH regulation.

12.6 Other adverse effects

AOX and metal content: Free of organic halogens and metals.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of leftover product and empty containers according to current environmental protection and hazardous waste legislation (National Law No. 24.051 and regulations). Disposal procedure: incineration.

SECTION 14 - TRANSPORTATION INFORMATION

14.1 LAND TRANSPORTATION

Proper Shipping Name:	NON-HAZARDOUS GOODS FOR TRANSPORTATION
UN/ID NO:	NON-DANGEROUS GOODS FOR TRANSPORT
Hazard Class:	NON-DANGEROUS GOODS FOR TRANSPORT
Packaging Group:	NON-DANGEROUS GOODS FOR TRANSPORT
Hazard Code:	NON HAZARDOUS GOODS FOR TRANSPORTATION
Limited and excepted quantity:	GOODS NOT DANGEROUS FOR TRANSPORT
Special Provisions:	NON HAZARDOUS GOODS FOR TRANSPORTATION

14.2 AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name:	NON-DANGEROUS GOODS FOR TRANSPORT
UN/ID N°:	NON DANGEROUS GOODS FOR TRANSPORTATION
Hazard Class:	NON HAZARDOUS GOODS FOR TRANSPORTATION
Packing Group:	NON-DANGEROUS GOODS FOR TRANSPORT
Instructions for Passenger and Cargo Aircraft:	NON-HAZARDOUS GOODS FOR TRANSPORTATION
Instructions for Cargo Aircraft:	NON HAZARDOUS GOODS FOR TRANSPORTATION
CRE:	NON-DANGEROUS GOODS FOR TRANSPORT
Special Provisions:	NON HAZARDOUS GOODS FOR TRANSPORTATION

14.3 MARITIME TRANSPORT (IMO)

Transport in packaging in accordance with IMDG Code

Proper Shipping Name:	NON-HAZARDOUS GOODS FOR TRANSPORT
UN/ID NO:	NON-DANGEROUS GOODS FOR TRANSPORT
Hazard Class:	NON-DANGEROUS GOODS FOR TRANSPORT
Packaging Group:	NON-DANGEROUS GOODS FOR TRANSPORT
EMS:	NON-DANGEROUS GOODS FOR TRANSPORT
Stowage and handling:	NON-DANGEROUS GOODS FOR TRANSPORT
Segregation:	NON-DANGEROUS GOODS FOR TRANSPORT
Marine Pollutant:	NO
Name for transport documentation:	NOT CLASSIFIED AS A DANGEROUS GOODS

SECTION 15 - REGULATION OF USE

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture

Substance not hazardous to the ozone layer.
Volatile organic compound (VOC) content: N/D

15.2 Chemical safety assessment

The supplier has not conducted a chemical safety assessment for this substance/mixture.

SECTION 16 - OTHER INFORMATION

16.1 Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists - United States.

CAS: Chemical Abstracts Service.

EC: effective concentration.

LC: lethal concentration.

CMP: maximum allowable concentration
C: maximum allowable concentration - ceiling value

CMP-CPT: maximum permissible concentration for short periods of time.

CRE: emergency response code.

CSEO: concentration with no observed effect.

LD: Lethal dose.

EMS: emergency management card.

PPE: personal protective equipment.

ETA: estimation of acute toxicity.

SDS: Safety Data Sheet. IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association (IATA)

ICAO: International Civil Aviation Organization (ICAO)

IDLH: concentration immediately dangerous to life or health.

IMDG: International Maritime Dangerous Goods Code.

IMO: International Maritime Organization (IMO) Log K_{oc}: organic carbon-water partition coefficient.

Log K_{ow}: octanol-water partition coefficient.

vPvB: Very persistent or very bioaccumulative.

MTESS: Ministry of Labor, Employment and Social Security - Argentina.

N/A: the property is not applicable due to the physical, chemical and toxicological characteristics of the product.

N/A: no information available at the time of the SDS.

NFPA: National Fire Protection Agency - United States.

NIOSH: National Institute for Occupational Safety and Health
Occupational - United States

OECD: Organization for Economic Cooperation and Development.

OSHA: Occupational Safety and Health Administration - United States.

PAX: passengers.

PBT: persistent, bioaccumulative or toxic criterion.

PEL: Permissible Exposure Limit.

PMCC: Pensky Martens closed-cup PNEC: Predicted no observable effect concentration.

PNEC-STP: Predicted No Observable Effect Concentration in Water Treatment Plants.

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals - Europe.

REL: Recommended Exposure Limit. GHS: Globally Harmonized System of Classification and Labeling of Chemicals. SRT:

Superintendence of Labor Risks. STEL: Short Term Exposure Limit TLV: Threshold Limit Value.

UN: United Nations.

SGA CLASS DESIGNATION

Acute Tox: Acute Toxicity

Aer.: aerosols

Aquatic Acute: Dangerous for the aquatic environment - acute danger

Aquatic Chronic: Hazardous to the environment aquatic - chronic hazard Asp.

Tox. Aspiration toxicity

Carc.: carcinogenicity

Compressed gas: compressed gas

Dissolved gas: dissolved gas

Eye Damage/ Irritation: Serious eye damage/irritation

ocular	Oxid. Liquid: Oxidizing liquid Oxid.
Flam. Gas: flammable gas.	Solid: oxidizing solid Ozo: hazardous to ozone layer.
Flam. Liquid: flammable liquid	Pyr. Liq.: pyrophoric liquid
Flam. Solid: flammable solid	Repr.: toxic for reproduction
Lac.: toxic for reproduction - lactation	Resp. Sens.: respiratory sensitizer
Liquefied gas: liquefied gas	Skin Corr. /Irrit.: Skin corrosion/irritation
Liquefied Refr. Gas: refrigerated liquefied gas	Skin Sens.: Skin sensitizer STOT Rep. Exp.: Specific target organ toxicity - repeated exposure STOT Single Exp.: Specific target organ toxicity - single exposure Water React. Flam. Gas: Water reactive substance, which emits flammable gases.
Met. Corr.: corrosive for metals	
Mutagenicity: mutagenicity	
Org. peroxide: organic peroxide	
Oxid. Gas: oxidizing gas	

16.2 Main bibliographic references and data sources

Safety Data Sheet according to Resolution 801/2015 of the Superintendence of Labor Risks (SRT), MTESS, and IRAM Standard 41400: 2013 - Safety Data Sheet Format according to GHS. Resolution 295/2003 Ministry of Labor, Employment and Social Security, Argentine Republic - Environmental exposure controls.

Resolution 844/2017 Superintendence of Labor Risks, Ministry of Labor, Employment and Social Security, Argentine Republic - Carcinogenic agents.

International Agency for Research on Cancer (IARC), classification of carcinogens.

National Law No. 24.051 and its regulations, Argentine Republic - Hazardous Waste Law.

Globally Harmonized System of Classification and Labeling of Chemicals, fifth revised edition, 2013 (GHS 2013 - "ST/SG/AC 10/30/Rev. 5"). The fifth edition is taken into consideration as it is the one in force for Argentina according to Resolution 801/2015 of the SRT.

Decree 779/95, Annex S, regulating the National Transit Law regarding the transportation of Dangerous Goods.

Resolution 195/97 Secretariat of Public Works and Transport, Argentine Republic - Technical Regulations for the Transport of Dangerous Goods by Road.

Agreement on the Transport of Hazardous Products within the MERCOSUR, MERCOSUR-CMCADEC No. 2/94.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2019) and amendments thereto.

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2019) and amendments thereto.

International Maritime Dangerous Goods Code (IMDG 2018 - Amendment 39-18), International Maritime Organization (IMO).

IBC Code 2016, IMO, IMO Resolution MSC.369(93).

International Air Transport Association Regulations (IATA 60 ed., 2019) relating to the transport of dangerous goods by air.

16.3 Classification and procedure used to determine the classification of the mixture

Procedures in accordance with the GHS/GHS and Resolution 801/2015 of the Superintendence of Labor Risks, MTESS.

The classification has been made on the basis of chemical analogues and product information.

SECTION 2: classification by analogy with other products, and based on product data in CIQUIME.

SECTION 9: Product data.

SECTIONS 11 and 12: Acute toxicity estimation calculation according to GHS.

Change control: v.1 - Adaptation to the EMS.

16.4 Exclusion of liability

The information in this document relates to the product, and not to any other product or process involving the product. This document provides health and safety information. The information is correct and complete to the best of our knowledge. It is provided in good faith, but without warranty. Use the product according to the recommendations for use. If you use this product you should inform yourself of the recommended safety precautions and you should have access to this information. For all other uses, assess exposure and implement appropriate handling measures and training programs to ensure safe operations in the workplace. It remains your responsibility to ensure that this information is appropriate and complete for the use of the product.

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