

### Safety Data Sheet



#### PTPURE2 - Platinum ready to use plating solution 2 g/l

Safety Data Sheet dated 1/21/2021 version 2

Compliant with regulation (CE) n. 1907/2006 REACH, Annex II, and subsequent amendments introduced by Commission Regulation (EU) no. 2015/830

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Mixture identification:

Trade name: PTPURE2 - Platinum ready to use plating solution 2 g/l

Trade code: PTPURE2 Product type and use: SL

Registration Number N/A

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: For electroplating industry

Uses advised against: N.A.

## 1.3. Details of the supplier of the safety data sheet

Company: LEGOR GROUP S.p.A. Via del Lavoro, 1

36050 Bressanvido (VI)

Italy

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Competent person responsible for the safety data sheet: info@legor.com

#### 1.4. Emergency telephone number

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## **SECTION 2: Hazards identification**



### 2.1. Classification of the substance or mixture

## Regulation (EC) n. 1272/2008 (CLP)

Skin Corr. 1A Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

## **Pictograms and Signal Words**



Danger

#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

## **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin 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.

P310 Immediately call a POISON CENTER/doctor/...

Production Name

P501 Dispose of contents/container to ...

#### **Contains**

Sulphuric acid

Diammineplatinum(II) Nitrite

## Special provisions according to Annex XVII of REACH and subsequent amendments:

None

## 2.3. Other hazards

Other Hazards: No other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: PTPURE2 - Platinum ready to use plating solution 2 g/l

## Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	<b>Registration Number</b>
5-10 %	Sulphuric acid	CAS:7664-93-9 EC:231-639-5 Index:016-020- 00-8	Skin Corr. 1A, H314	01-2119458838-20
< 5%	Diammineplatinum(II) Nitrite		3 Acute Tox. 4, H302; Resp. Sens H334: Skin Sens. 1, H317	5. 1,

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

## 4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

## 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

## 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

## 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Country Coiling

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## **Community Occupational Exposure Limits (OEL)**

ΩEI

Component	Type	mg/m3 ppm Term mg/m3	Term ppm
Sulphuric acid	ACGIH NNN	0,2	(T), A2(M) - Pulm func

Long Torm Long Torm Short

Short

Rehaviour Notes

#### 8.2. Exposure controls

Eye protection:

Component

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance and colour: Colourless liquid

**Odour:** Odourless **Odour threshold:** N.A.

**pH:** 1,00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: > 93°C Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: Total
Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

**Auto-ignition temperature:** N.A. **Decomposition temperature:** N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

9.2. Other information

VOC N.A.

**Substance Groups relevant properties N.A.** 

Miscibility: N.A.
Conductivity: N.A.

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Data not Available.

## 10.3. Possibility of hazardous reactions

None.

## 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

## 10.6. Hazardous decomposition products

None

Date

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

# Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Corr. 1A(H314) c) serious eye damage/irritation The product is classified: Eye Dam. 1(H318)

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

# List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

#### 12.2. Persistence and degradability

NΑ

### 12.3. Bioaccumulative potential

## 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

No PBT Ingredients are present

#### 12.6. Other adverse effects

N.A.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

## **SECTION 14: Transport information**



## 14.1. UN number

2796

## 14.2. UN proper shipping name

ADR-Shipping Name: SULPHURIC ACID

IATA-Technical name: SULPHURIC ACID with 51% or less acid

IMDG-Technical name: SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID

## 14.3. Transport hazard class(es)

ADR-Class: 8 IATA-Class: 8 IMDG-Class: 8

## 14.4. Packing group

ADR-Packing Group: II IATA-Packing group: II IMDG-Packing group: II

# 14.5. Environmental hazards

1/21/2021

Nο

Environmental Pollutant: No

## 14.6. Special precautions for user

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Road and Rail ( ADR-RID ):
        ADR-Label: 8
        ADR - Hazard identification number: 80
        ADR-Special Provisions: -
        ADR-Transport category (Tunnel restriction code): 2 (E)
Air (IATA):
        IATA-Passenger Aircraft: 851
        IATA-Cargo Aircraft: 855
        IATA-Label: 8
        IATA-Subsidiary hazards: -
        IATA-Erg: 8L
        IATA-Special Provisioning: -
Sea (IMDG):
        IMDG-Stowage Code: Category B
        IMDG-Stowage Note: SGG1a SG36 SG49
        IMDG-Subsidiary hazards: -
        IMDG-Special Provisioning: -
        IMDG-Page: N/A
        IMDG-Label: N/A
        IMDG-EMS: F-A, S-B
        IMDG-MFAG: N/A
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
        N.A.
SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) 2015/830
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and
subsequent modifications:
        Restrictions related to the product: 3
        Restrictions related to the substances contained: None
Provisions related to directive EU 2012/18 (Seveso III):
```

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

Production Name

SVHC Substances:

N.A.

No data available

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## **SECTION 16: Other information**

Description

Resp. Sens. 1

Skin Sens. 1

Harmful if swallowed.

Code

H302

3.4.1/1

3.4.2/1

H314	Causes severe skin burns and eye damage.				
H317	May cause an allergic skin reaction.				
H318	Causes serious eye damage.				
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
Code	Hazard class and hazard category	Description			
Code 3.1/4/Oral	Hazard class and hazard category Acute Tox. 4	<b>Description</b> Acute toxicity (oral), Category 4			
	<b>5</b> ,	•			

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Respiratory Sensitisation, Category 1

Skin Sensitisation, Category 1

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure	
3.2/1A	On basis of test data (pH)	
3.3/1	On basis of test data (pH)	

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

Page n. 8 of 9 Date 1/21/2021 **Production Name** PTPURE2 - Platinum ready to use plating solution 2 g/l

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

**PSG: Passengers** 

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

## Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

Date 1/21/2021