

according to Regulation (EC) No. 1907/2006

Creation Date 11-Feb-2011 Revision Date 09-Feb-2024 Revision Number 7

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Platinum standard solution, 1 mg/ml Pt in 10-20% HCl

Cat No. : 196190000; 196191000

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

EU entity/business name

Thermo Fisher Scientific

Janssen Pharmaceuticalaan 3a, 2440 Geel, Belgium

**UK** entity/business name

Fisher Scientific UK
Bishop Meadow Road.

Loughborough, Leicestershire LE11 5RG, United Kingdom

Swiss distributor - Fisher Scientific AG

Neuhofstrasse 11, CH 4153 Reinach Tel: +41 (0) 56 618 41 11

e-mail - infoch@thermofisher.com

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

# **Section 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

## Platinum standard solution, 1 mg/ml Pt in 10-20% HCI

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Physical hazards

Substances/mixtures corrosive to metal Category 1 (H290)

**Health hazards** 

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity - (single exposure)

Category 2 (H315)

Category 2 (H319)

Category 3 (H335)

**Environmental hazards** 

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



Signal Word

Warning

## **Hazard Statements**

H290 - May be corrosive to metals

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

## **Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

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 or doctor/physician

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

## 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

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

#### 3.2. Mixtures

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Hydrochloric acid	7647-01-0	231-595-7	20	Met. Corr. 1 (H290)

## Platinum standard solution, 1 mg/ml Pt in 10-20% HCI

				Skin Corr. 1B (H314) Eye Dam. 1 (H318) STOT SE 3 (H335)
Water	7732-18-5	231-791-2	79.9	-
Platinum	7440-06-4	EEC No. 231-116-1	0.1	-

Component	Specific concentration limits (SCL's)	M-Factor	Component notes
Hydrochloric acid	Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 10%<=C<25% Eye Irrit. 2 :: 10%<=C<25% STOT SE 3 :: C>=10% Met. Corr. 1 :: C>=0.1%	-	-

Components	Reach Registration Number	
Hydrochloric acid	01-2119484862-27	

Full text of Hazard Statements: see section 16

# Section 4: First aid measures

### 4.1. Description of first aid measures

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing and gloves, including the inside, before re-use. Call a physician

immediately.

**Ingestion** Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a physician immediately.

**Inhalation** If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device. Call a physician immediately.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

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

Notes to Physician Treat symptomatically.

# **Section 5: Firefighting measures**

ACR19619

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## Platinum standard solution, 1 mg/ml Pt in 10-20% HCI

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## 5.1. Extinguishing media

## **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

# Extinguishing media which must not be used for safety reasons

No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

Hydrogen chloride gas.

## 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## 6.2. Environmental precautions

Should not be released into the environment.

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

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

# 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

# Section 7: Handling and storage

## 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

## **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Storage Class/LGK 12

Platinum standard solution, 1 mg/ml Pt in 10-20% HCI

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Switzerland - Storage of hazardous substances

Storage class - SC 10/12

https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

## 7.3. Specific end use(s)

Use in laboratories

# Section 8: Exposure controls/personal protection

## 8.1. Control parameters

## **Exposure limits**

List source(s): EU - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC UK - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. IRE - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. CH - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

Component	European Union	The United Kingdom	France	Belgium	Spain
Hydrochloric acid	TWA: 5 ppm 8 hr	STEL: 5 ppm 15 min	STEL / VLCT: 5 ppm.	TWA: 5 ppm 8 uren	STEL / VLA-EC: 10 ppm
	TWA: 8 mg/m <sup>3</sup> 8 hr	STEL: 8 mg/m <sup>3</sup> 15 min	restrictive limit	TWA: 8 mg/m <sup>3</sup> 8 uren	(15 minutos).
	STEL: 10 ppm 15 min	TWA: 1 ppm 8 hr	STEL / VLCT: 7.6	STEL: 10 ppm 15	STEL / VLA-EC: 15
	STEL: 15 mg/m <sup>3</sup> 15 min	TWA: 2 mg/m <sup>3</sup> 8 hr	mg/m <sup>3</sup> . restrictive limit	minuten	mg/m³ (15 minutos).
				STEL: 15 mg/m <sup>3</sup> 15	TWA / VLA-ED: 5 ppm
				minuten	(8 horas)
					TWA / VLA-ED: 7.6
					mg/m³ (8 horas)
Platinum		STEL: 15 mg/m <sup>3</sup> 15 min	TWA / VME: 1 mg/m <sup>3</sup> (8	TWA: 1 mg/m <sup>3</sup> 8 uren	TWA / VLA-ED: 1 mg/m <sup>3</sup>
		TWA: 5 mg/m <sup>3</sup> 8 hr	heures).	•	(8 horas)

Component	Italy	Germany	Portugal	The Netherlands	Finland
Hydrochloric acid	TWA: 5 ppm 8 ore. Time	TWA: 2 ppm (8	STEL: 10 ppm 15	STEL: 10 ppm 15	STEL: 5 ppm 15
	Weighted Average	Stunden). AGW -	minutos	minuten	minuutteina
	TWA: 8 mg/m <sup>3</sup> 8 ore.	exposure factor 2	STEL: 15 mg/m <sup>3</sup> 15	STEL: 15 mg/m <sup>3</sup> 15	STEL: 7.6 mg/m <sup>3</sup> 15
	Time Weighted Average	TWA: 3 mg/m <sup>3</sup> (8	minutos	minuten	minuutteina
	STEL: 10 ppm 15	Stunden). AGW -	Ceiling: 2 ppm	TWA: 5 ppm 8 uren	
	minuti. Short-term	exposure factor 2	TWA: 5 ppm 8 horas	TWA: 8 mg/m <sup>3</sup> 8 uren	
	STEL: 15 mg/m <sup>3</sup> 15	TWA: 2 ppm (8	TWA: 8 mg/m <sup>3</sup> 8 horas	_	
	minuti. Short-term	Stunden). MAK			
		TWA: 3.0 mg/m <sup>3</sup> (8			
		Stunden). MAK			
		Höhepunkt: 4 ppm			
		Höhepunkt: 6 mg/m <sup>3</sup>			
Platinum		TWA: 1 mg/m <sup>3</sup> (8	TWA: 1 mg/m <sup>3</sup> 8 horas	TWA: 1 mg/m <sup>3</sup> 8 uren	TWA: 1 mg/m <sup>3</sup> 8
		Stunden). AGW -	_		tunteina

Component	Austria	Denmark	Switzerland	Poland	Norway
,	MAK-KZGW: 10 ppm 15 Minuten MAK-KZGW: 15 mg/m³ 15 Minuten MAK-TMW: 5 ppm 8 Stunden MAK-TMW: 8 mg/m³ 8 Stunden	minutter STEL: 8 mg/m³ 15 minutter	STEL: 4 ppm 15 Minuten STEL: 6 mg/m³ 15 Minuten TWA: 2 ppm 8 Stunden TWA: 3 mg/m³ 8 Stunden		Ceiling: 5 ppm Ceiling: 7 mg/m³
Platinum	MAK-TMW: 1 mg/m³ 8 Stunden	TWA: 1 mg/m³ 8 timer STEL: 2 mg/m³ 15 minutter	TWA: 1 mg/m <sup>3</sup> 8 Stunden	TWA: 1 mg/m³ 8 godzinach	: 8 timer : 15 minutter. no value adopted

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
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Hydrochloric acid	TWA: 5 ppm TWA: 8.0 mg/m³ STEL : 10 ppm STEL : 15.0 mg/m³	TWA-GVI: 5 ppm 8 satima. TWA-GVI: 8 mg/m³ 8 satima. STEL-KGVI: 10 ppm 15 minutama. STEL-KGVI: 15 mg/m³ 15 minutama.	TWA: 8 mg/m <sup>3</sup> 8 hr. F TWA: 5 ppm 8 hr. STEL: 10 ppm 15 min STEL: 15 mg/m <sup>3</sup> 15 min	STEL: 10 ppm STEL: 15 mg/m³ TWA: 5 ppm TWA: 8 mg/m³	TWA: 8 mg/m³ 8 hodinách. Ceiling: 15 mg/m³
Platinum	TWA: 1.0 mg/m³	TWA-GVI: 1 mg/m <sup>3</sup> 8 satima.	TWA: 1 mg/m <sup>3</sup> 8 hr. Pt STEL: 3 mg/m <sup>3</sup> 15 min	TWA: 1 mg/m³	TWA: 0.5 mg/m³ 8 hodinách. Ceiling: 1 mg/m³

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Hydrochloric acid	TWA: 5 ppm 8 tundides.	TWA: 5 ppm 8 hr	STEL: 5 ppm	STEL: 165 mg/m <sup>3</sup> 15	STEL: 5 ppm
	TWA: 8 mg/m <sup>3</sup> 8	TWA: 8 mg/m <sup>3</sup> 8 hr	STEL: 7 mg/m <sup>3</sup>	percekben. CK	STEL: 8 mg/m <sup>3</sup>
	tundides.	STEL: 10 ppm 15 min	TWA: 5 ppm	STEL: 10 ppm 15	_
	STEL: 10 ppm 15	STEL: 15 mg/m <sup>3</sup> 15 min	TWA: 7 mg/m <sup>3</sup>	percekben. CK	
	minutites.			TWA: 8 mg/m <sup>3</sup> 8	
	STEL: 15 mg/m <sup>3</sup> 15			órában. AK	
	minutites.			TWA: 5 ppm 8 órában.	
				AK	
Platinum	TWA: 1 mg/m <sup>3</sup> 8	TWA: 1 mg/m <sup>3</sup> 8 hr	TWA: 5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> 8	TWA: 1 mg/m <sup>3</sup> 8
	tundides.	metallic;existing		órában. AK	klukkustundum. dust
		scientific data on health			and powder
		effects appear to be			Ceiling: 2 mg/m <sup>3</sup> dust
		particularly limited			and powder

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Hydrochloric acid	STEL: 10 ppm	TWA: 5 ppm IPRD	TWA: 5 ppm 8 Stunden	TWA: 5 ppm	TWA: 5 ppm 8 ore
	STEL: 15 mg/m <sup>3</sup>	TWA: 8 mg/m³ IPRD	TWA: 8 mg/m <sup>3</sup> 8	TWA: 8 mg/m <sup>3</sup>	TWA: 8 mg/m <sup>3</sup> 8 ore
	TWA: 5 ppm	STEL: 10 ppm	Stunden	STEL: 10 ppm 15 minuti	STEL: 10 ppm 15
	TWA: 8 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup>	STEL: 10 ppm 15	STEL: 15 mg/m <sup>3</sup> 15	minute
			Minuten	minuti	STEL: 15 mg/m <sup>3</sup> 15
			STEL: 15 mg/m <sup>3</sup> 15		minute
			Minuten		
Platinum	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> IPRD	TWA: 1 mg/m <sup>3</sup> 8	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> 8 ore
		_	Stunden	-	_

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Hydrochloric acid	MAC: 5 mg/m <sup>3</sup>	Ceiling: 15 mg/m <sup>3</sup>	TWA: 5 ppm 8 urah	Binding STEL: 4 ppm 15	TWA: 5 ppm 8 saat
	_	TWA: 5 ppm	anhydrous	minuter	TWA: 8 mg/m <sup>3</sup> 8 saat
		TWA: 8.0 mg/m <sup>3</sup>	TWA: 8 mg/m <sup>3</sup> 8 urah	Binding STEL: 6 mg/m <sup>3</sup>	STEL: 10 ppm 15
			anhydrous	15 minuter	dakika
			STEL: 10 ppm 15	TLV: 2 ppm 8 timmar.	STEL: 15 mg/m <sup>3</sup> 15
			minutah anhydrous	NGV	dakika
			STEL: 15 mg/m <sup>3</sup> 15	TLV: 3 mg/m <sup>3</sup> 8 timmar.	
			minutah anhydrous	NGV	
Platinum		TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> 8 urah	TLV: 1 mg/m <sup>3</sup> 8 timmar.	TWA: 1 mg/m <sup>3</sup> 8 saat
		_	inhalable fraction	NGV	_

# **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## **Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

# Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

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Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Hydrochloric acid 7647-01-0 ( 20 )	,		DNEL = 8mg/m <sup>3</sup>	

## **Predicted No Effect Concentration (PNEC)**

No information available.

# 8.2. Exposure controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

## Personal protective equipment

**Eye Protection** Goggles (European standard - EN 166)

Hand Protection Protective gloves

l i	Blove material Natural rubber Nitrile rubber Neoprene	Breakthrough time See manufacturers recommendations	Glove thickness	EU standard EN 374	Glove comments (minimum requirement)
	PVC				

Skin and body protection Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particulates filter conforming to EN 143

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

**Recommended half mask:-** Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** No information available.

# Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Platinum standard solution, 1 mg/ml Pt in 10-20% HCI

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**Physical State** 

No information available **Appearance** 

pungent Odor

**Odor Threshold** No data available **Melting Point/Range** -25 °C / -13 °F **Softening Point** No data available **Boiling Point/Range** 107 °C / 224.6 °F

@ 760 mmHg

Flammability (liquid) No data available

Flammability (solid, gas) Not applicable Liquid

**Explosion Limits** No data available

**Flash Point** No information available Method - No information available

**Autoignition Temperature** No data available **Decomposition Temperature** No data available

Hq < 1

No data available Viscosity

**Water Solubility** Soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

No data available **Vapor Pressure** 

**Density / Specific Gravity** 1.06

**Bulk Density** Not applicable Liquid **Vapor Density** No data available (Air = 1.0)

Particle characteristics Not applicable (liquid)

9.2. Other information

# Section 10: Stability and reactivity

10.1. Reactivity None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

**Hazardous Polymerization** No information available. **Hazardous Reactions** None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

Bases. Amines. Metals.

10.6. Hazardous decomposition products

Hydrogen chloride gas.

# **Section 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product Information** 

# Platinum standard solution, 1 mg/ml Pt in 10-20% HCl

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(a) acute toxicity;

No data available Oral No data available **Dermal** No data available Inhalation

#### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	238 - 277 mg/kg (Rat)	77 mg/kg (Rat) > 5010 mg/kg (Rabbit) 1.68 mg/L	
Water	-	-	-

Category 2 (b) skin corrosion/irritation;

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

Respiratory No data available No data available Skin

No data available (e) germ cell mutagenicity;

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

No data available (g) reproductive toxicity;

(h) STOT-single exposure; No data available

Results / Target organs Respiratory system.

No data available (i) STOT-repeated exposure;

**Target Organs** No information available.

(j) aspiration hazard; No data available

Other Adverse Effects The toxicological properties have not been fully investigated.

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation.

11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

# **Section 12: Ecological information**

12.1. Toxicity

**Ecotoxicity effects** 

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	Component	Freshwater Fish	Water Flea	Freshwater Algae
Г	Hydrochloric acid	282 mg/L LC50 96 h Gambusia	56mg/L EC50 72h Daphnia	-
		affinis		
		mg/L LC50 48 h Leucscus idus		

Component	Microtox	M-Factor
Hydrochloric acid	-	

12.2. Persistence and degradability

**Persistence** Soluble in water, Persistence is unlikely, based on information available.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

12.4. Mobility in soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the

environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

## **Section 13: Disposal considerations**

13.1. Waste treatment methods

Waste from Residues/Unused

**Products** 

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used. Do not empty into drains. Solutions with low pH-value must be neutralized before

discharge.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

# **Section 14: Transport information**

## IMDG/IMO

## Platinum standard solution, 1 mg/ml Pt in 10-20% HCI

**14.1. UN number** UN1789

14.2. UN proper shipping name HYDROCHLORIC ACID, SOLUTION

14.3. Transport hazard class(es) 8
14.4. Packing group II

ADR

**14.1. UN number** UN1789

14.2. UN proper shipping name HYDROCHLORIC ACID SOLUTION

14.3. Transport hazard class(es) 8 14.4. Packing group 8

**IATA** 

**14.1. UN number** UN1789

14.2. UN proper shipping name HYDROCHLORIC ACID, SOLUTION

14.3. Transport hazard class(es) 8 14.4. Packing group

14.5. Environmental hazards No hazards identified

**14.6. Special precautions for user** No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

# **Section 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **International Inventories**

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Hydrochloric acid	7647-01-0	231-595-7	-	-	X	X	KE-20189	X	X
Water	7732-18-5	231-791-2	-	-	Х	X	KE-35400	X	-
Platinum	7440-06-4	231-116-1	-	-	X	X	KE-28808	X	-

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Hydrochloric acid	7647-01-0	X	ACTIVE	X	-	X	Х	X
Water	7732-18-5	Х	ACTIVE	Х	-	Х	X	X
Platinum	7440-06-4	Х	ACTIVE	X	-	X	Х	Х

**Legend:** X - Listed '-' - Not Listed **KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Hydrochloric acid	7647-01-0	-	Use restricted. See entry 75. (see link for restriction details)	

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## Platinum standard solution, 1 mg/ml Pt in 10-20% HCI

7700 40 5

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Water	7732-18-5	•	-	-
Platinum	7440-06-4	-	-	-

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

## Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Hydrochloric acid	7647-01-0	25 tonne	250 tonne
Water	7732-18-5	Not applicable	Not applicable
Platinum	7440-06-4	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

## **National Regulations**

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

**WGK Classification** Water endangering class = 1 (self classification)

Co	mponent	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Hydr	ochloric acid	WGK1	

#### **Swiss Regulations**

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

	Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
ſ	Hydrochloric acid	Prohibited and Restricted		
L	7647-01-0 ( 20 )	Substances		

# 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## **Section 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eve damage

H318 - Causes serious eye damage H335 - May cause respiratory irritation

H315 - Causes skin irritation

H319 - Causes serious eye irritation

## Legend

**CAS** - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances **IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

Substances List

**ENCS** - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC) LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate VOC - (volatile organic compound)

## Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

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

On basis of test data Physical hazards **Health Hazards** Calculation method **Environmental hazards** Calculation method

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

**Creation Date** 11-Feb-2011 **Revision Date** 09-Feb-2024 **Revision Summary** Not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

Platinum standard solution, 1 mg/ml Pt in 10-20% HCl

Revision Date 09-Feb-2024

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**