# **SAFETY DATA SHEET (SDS)**



#### **PRO 41**

#### 1. Identification

Product Name: PRO 41
Product Code: P41001

Recommended Use: Stainless Steel Cleaner

Supplier Details: Orlichem (PTY) Ltd

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 +27 (021) 932 6457

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#### 2. Hazards identification

ClassificationHealth:Eye DamageCategory1Skin CorrosionCategory1C

**Environmental:** Not Classified **Physical:** Not Classified

**Label element** 



Hazard Health: H314 - Causes severe skin burns and eye damage

**Statements** H318 - Causes serious eye damage

**Environmental:** Not Classified **Physical:** Not Classified

**Precautionary** General: P102 - Keep out of reach of children.

**Statements** P103 - Read label before use.

**Prevention:** P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P262 - Do not get in eyes, on skin, or on clothing

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

protection.

**Response:** See Section 4 (First- Aid Measures)

**Storage:** P402+404 - Store in a dry place. Store in a closed container. **Disposal:** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulation.

# 3. Composition / Information on ingredients Substance X Mixture CAS No. EC No. Index No. % Name **Phosphoric Acid Solution** 7664-38-2 231-633-2 015-011-00-6 30 - 60 Occupational Exposure Limit(s), if available, are listed in section 8 4. First- Aid Measures **Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. (P305+351+338) If eye irritation persists get medical advice/attention.(P337+313) Skin Contact: IF ON SKIN: Wash with plenty of water (P302+352) IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+361+353) Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+340) IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+330+331) Ingestion: Give Water or Milk to Drink. Get immediate medical advice/attention. (P315) Most important symptoms/effects, acute and delayed. **Eve Contact:** Possible redness and irritation of affected area, Corrosive to the eyes. Skin Contact: Possible irritation and severe pain. Causes blisters and burns. Inhalation: Possible irritation and burning of air ways, Difficulty of breathing Ingestion: Possible irritation and Ingestion causes burns in the mouth, throat and oesophagus Indication of immediate medical attention and special treatment needed No Information Available 5. Fire-Fighting measures **Extinguishing Media** X Water Wet chemical X Foam X Dry powder X Carbon dioxide X | Vaporising liquid Halon Do not use water jet as an extinguisher, as this will spread the fire Specific hazards arising from the chemical Decomposition products may include the Not Available following materials:

#### Special protective equipment and precautions for firefighters

Use personal protective equipment.

Keep containers exposed to fire cool with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

#### 6. Accident release measures

Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Do not touch or walk through spilled material.

**Protective Equipment:** Wear protective clothing as per Section 8 (Exposure controls / personal

protection)

**Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area. ELIMINATE all

ignition sources (no smoking, flares, sparks or flames in immediate area) Keep

out of low areas. Keep unauthorized personnel away.

**Environmental precautions** Do not allow contact with surface or ground water.

Methods and materials for

containment and cleaning up:

Stop leak if safe to do so. Neutralise diluted spill with soda ash or lime. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material

to ensure runoff does not reach a waterway

## 7. Handling and Storage

**Precautions for safe handling** 

Handling: Do not get in eyes. (P262)

Wash hands thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product.(P270) Wear protective gloves/protective clothing/eye protection/face

protection.(P280)

Conditions for safe storage, including any incompatibilities

Storage: Keep out of reach of children. (P102)

Store in a dry place. Store in a closed container. (P402+404)

Keep only in original container. (P234) Store away from other materials. (P420)

**Incompatible Materials:** Alkaline substances.

## 8. Exposure controls / personal protection

**Control parameters** 

Material NameCas No.TWASTELNotesPhosphoric Acid Solution7664-38-21mg/m3 @3mg/m3 @Weight8hours15 minutesAveraged

theoretically calculated

**Exposure controls** 

**Engineering Controls:** Adequate ventilation systems as needed to control concentrations of airborne

contaminants below applicable exposure limit values. Ensure that eyewash stations and safety showers are proximal to the work-station location.

## **Occupational Exposure Control**



Wear protective gloves



Wear safety goggles, giving complete eye protection.



Wear protective clothing

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling compounds and

before eating, smoking, and using lavatory and at the end of the day.

## 9. Physical and chemical properties

**Appearance:** Liquid, Water White

Odour: Acidic
Odour threshold: Not Available

pH: <2

**Melting point / freezing point:** May solidify at freezing point **Initial boiling point and boiling range:** Weighted average: 102.0° C

Flash point:

Evaporation rate:

Flammability:

Upper/lower flammability or explosive limits:

Vapour pressure:

Vapour density:

Relative density:

Not Available

Not Available

1.20 – 1.30

**Solubility(ies)** Easily soluble in cold water, hot water

Partition coefficient: n-octanol/water:
Auto-ignition temperature:
Not Available
Decomposition temperature:
Not Available
Viscosity:
Not Available
Explosive properties:
Not Available
Oxidising properties:
Not Available

## 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous** 

reactions:

No hazardous reactions known if used for its intended purpose.

**Conditions to avoid:** See Section 7 (Handling and Storage)

Incompatible materials: Alkaline Substances
Hazardous decomposition Not Available

products:

## 11. Toxicological information

Component Name CAS No. Data

Phosphoric Acid Solution 7664-38-2 **Acute Toxicity:** LC50 - 1530 mg/kg (Oral - Rat)

Irritation: LD50 - 595 mg/kg (Dermal - Rabbit)

Reproductive: Not Available

acute toxicity: 
skin corrosion/irritation: 
reproductive toxicity: 
serious eye 
STOT-single exposure: 
x

serious eye 
√
damage/irritation:

respiratory or skin

sensitization:

germ cell mutagenicity: x aspiration hazard: x

✓ Data Required to make classification

**STOT-repeated exposure:** 

available

Not Available

Route(s) of entry/exposure

Eye:

Acute (Immediate): Causes eye irritation (H320)

Chronic (Delayed): Causes serious eye damage (H318)

Skin:

Acute (Immediate): Causes skin irritation (H315)

Chronic (Delayed): Causes severe skin burns (H314)

Inhalation:

Acute (Immediate): May be harmful if inhaled (H333)

Chronic (Delayed): May cause allergy or asthma symptoms or breathing difficulties if inhaled

(H334)

Ingestion:

Acute (Immediate): May be harmful if swallowed (H303)

Chronic (Delayed): May be harmful if swallowed and enters airways (H305)

## 12. Ecological information

**Toxicity** 

Components Species Test Results

Phosphoric Acid Solution

Fish Gambusia affinis 138 mg/l @ 96 hours Invertebrates, Aquatic Daphnia magna 100 mg/l @ 72 hours Algae Chlorella vulgaris 100 mg/l @ 72 hours

Persistence and degradability

Abiotic Degradation:Not AvailablePhysical- and photo-chemicalNot Available

elimination:

**Biodegradation:** Product is readily biodegradable

Bioaccumulative potential

Partition coefficient n-octanol Not Available

/water (log Kow):

**Bioconcentration factor (BCF):** Not Available

**Mobility in Soil** 

Known or predicted distribution to Completely soluble in water

environmental compartments:

Surface tension:Not AvailableAdsorption/Desorption:Not Available

Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Other adverse effects

Not Applicable

### 13. Disposal considerations

Waste treatment methods

**Product waste:** Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

Packaging waste: Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations. Where possible recycle

container. Consult manufacturer for recycling options.

## 14. Transport information

## International transport regulations

Regulatory Information	UN No.	Proper Shipping Name	Class	Packaging Group	Environmental hazards	Label
ARD/RID Class Land- Road/Railway	1805	Phosphoric Acid Solution	8	III	-	
ADN Class Inland Waterways	1805	Phosphoric Acid Solution	8	III	-	
<b>IMDG</b> Sea	1805	Phosphoric Acid Solution	8	III	-	
IATA-DGR Class Air	1805	Phosphoric Acid Solution	8	Ш	-	

Special precautions for user: None specified

**Emergency Response Guidebook Number:** 154

**Transport in bulk according to Annex II of**This product is provided only in non-bulk containers.

MARPOL73/78 and the IBC Code:

## 15. Regulatory Information

## Hazard Symbol(s)



**Classification** Danger

**Hazardous Statement:** H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

**Precautionary Statements** P102 - Keep out of reach of children.

P103 - Read label before use.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P262 - Do not get in eyes, on skin, or on clothing

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

protection.

P402+404 - Store in a dry place. Store in a closed container. P501 - Dispose of contents/container in accordance with

local/regional/national/international regulation.

Approvals: SANS 1828

**Product Use:** Consumer and Industrial applications

Classification and labelling have been performed as close as possible according to EU directives 67/548/EEC, 1999/45/EC including any

amendments and the intended use.

#### 16. Other information

Date of Issue / Last Revision:22 June 2021SDS Code:P41001Revision:1

#### THIS SAFETY DATA SHEET COMPILES TO THE:

UNITED NATIONS – GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) – FIFTH REVISED EDITION 2013

#### Disclaimer:

This SDS summarizes at the date of issue, our best knowledge of the health, safety and environmental hazard information related to the product, and in particular, how to safely handle, use and transport the product in the workplace. Since Orlichem (Pty) and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review SDS in the context of how it is to be handled. We shall not assume any liability for the accuracy or completeness of the information herein or any advice given. Product is sold subject to our standard terms and conditions.