

Issuing Date 29-Sep-2022

Revision Date 10-Oct-2022

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**GHS product identifier****Product Name** Plate Cleaner SPK+**Other means of identification****Product Code(s)** ----**UN-Number** ----**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended Use** Offset printing**Uses advised against** No information available**Supplier's details****Supplier Address**NO.61,Miremad ST,Beheshti
Ave.Tehran.Iran
TEL: 021-887-52931**2. HAZARDS IDENTIFICATION****Classification**

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

| | |
|-----------------------------------|-------------|
| Skin Corrosion/Irritation | Category 1 |
| Serious Eye Damage/Eye Irritation | Category 1 |
| Germ Cell Mutagenicity | Category 1B |
| Carcinogenicity | Category 1B |
| Aspiration Toxicity | Category 1 |

GHS Label elements, including precautionary statements**Emergency Overview**

| | |
|--|---------------|
| Signal Word | Danger |
| Hazard Statements | |
| • Causes severe skin burns and eye damage | |
| • May cause genetic defects | |
| • May cause cancer | |
| • May be fatal if swallowed and enters airways | |



Appearance White

Physical State Liquid.

Odor Mild

Precautionary Statements**Prevention**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wear eye/face protection.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.

General Advice

- Immediately call a POISON CENTER or doctor/physician.
- Specific treatment (see supplemental first aid instructions on this label)

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.
- Rinse mouth.

Storage

- Store locked up.

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

5.23449% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade secret |
|---|------------|----------|--------------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | 30-60 | * |
| Phosphoric acid | 7664-38-2 | 3 -7 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

| | |
|---------------------|---|
| 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 soap and plenty of water removing all contaminated clothes and shoes. Immediate medical attention is required. |
| Inhalation | Move to fresh air. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, seek medical attention. Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary edema and pneumonitis |

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Carbon dioxide (CO₂). Dry chemical.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

No information available.

Explosion Data

| | |
|---|-------|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information. Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Use personal protective equipment. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container closed when not in use. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|---|---|---|
| Phosphoric acid 7664-38-2 | STEL: 3 mg/m ³ TWA: 1 mg/m ³ | TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ (vacated) STEL: 3 mg/m ³ | IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ |

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical splash goggles.
Skin and Body Protection Impervious gloves. Impervious clothing.
Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State Liquid
Odor Mild
Appearance White
Odor Threshold No information available

| Property | Values | Remarks/ - Method |
|--|--------------------|-------------------|
| pH | 1.2 | None known |
| Melting Point/Range | Not applicable | None known |
| Boiling Point/Boiling Range | > 180 °F | None known |
| Flash Point | Not applicable. | None known |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limits in Air | | |
| upper flammability limit | No data available | |
| lower flammability limit | No data available | |
| Vapor Pressure | No data available | None known |
| Vapor Density | No data available | None known |
| Specific Gravity | 1.0 | None known |
| Water Solubility | Completely soluble | None known |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: n-octanol/water | No data available | None known |
| Autoignition Temperature | No data available | None known |
| Decomposition Temperature | No data available | None known |
| Viscosity | No data available | None known |

| | |
|-----------------------------|-------------------|
| Flammable Properties | Not flammable |
| Explosive Properties | No data available |
| Oxidizing Properties | No data available |

Other information

| | |
|----------------------------|------|
| VOC Content (%) | 33% |
| Actual VOC (lb/gal) | 2.78 |

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Incompatible products.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide (CO). Smoke

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information****Inhalation****Eye Contact****Skin Contact****Ingestion**

May cause irritation of respiratory tract.

Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage.

Corrosive. Causes severe skin burns.

Ingestion of corrosive substances can cause burns of the upper digestive and respiratory tract. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|----------------------|-------------------------|-----------------------------------|
| Naphtha (petroleum), hydrotreated heavy | > 5000 mg/kg (Rat) | > 3160 mg/kg (Rabbit) | - |
| Phosphoric acid | = 1530 mg/kg (Rat) | 2730 mg/kg (Rabbit) | 850 mg/m ³ (Rat) 1 h |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

| | |
|---------------------------------|--|
| Sensitization | No information available. |
| Mutagenic Effects | May cause genetic defects. |
| Carcinogenicity | May cause cancer. |
| Reproductive Toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration Hazard | May be fatal if swallowed and enters airways |

Numerical measures of toxicity - Product

Acute Toxicity 5.23449% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 20696 mg/kg; Acute toxicity estimate

LD50 Dermal 48677 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|-------------------|---|----------------------------|---|
| Naphtha (petroleum), hydrotreated heavy 64742-48-9 | | LC50 96 h: = 2200 mg/L (Pimephales promelas) | | LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus) |
| Phosphoric acid 7664-38-2 | | LC50: 3 - 3.5 mg/L Gambusia affinis 96 h | | EC50 12 h: = 4.6 mg/L (Daphnia magna) |

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION**DOT**

| | |
|--|---|
| UN-Number | UN1805 |
| Proper shipping name | Phosphoric acid, solution |
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN1805, Phosphoric acid, solution, 8, III, Limited Quantity |
| Emergency Response Guide Number | 154 |

TDG

| | |
|-----------------------------|---|
| UN-Number | UN1805 |
| Proper Shipping Name | Phosphoric acid, solution |
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN1805, Phosphoric acid, solution, 8, III, Limited Quantity |

MEX

| | |
|-----------------------------|---------------------------|
| UN-Number | UN1805 |
| Proper Shipping Name | Phosphoric acid, solution |

| | |
|----------------------|---|
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN1805, Phosphoric acid, solution, 8, III, Limited Quantity |

ICAO

| | |
|-----------------------------|---|
| UN-Number | UN1805 |
| Proper shipping name | Phosphoric acid, solution |
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN1805, Phosphoric acid, solution, 8, III |

IATA

| | |
|-----------------------------|---|
| UN-Number | UN1805 |
| Proper Shipping Name | Phosphoric acid, solution |
| Hazard Class | 8 |
| Packing Group | III |
| ERG Code | 8L |
| Description | UN1805, Phosphoric acid, solution, 8, III |

IMDG/IMO

| | |
|-----------------------------|--|
| UN-Number | UN1805 |
| Proper Shipping Name | Phosphoric acid solution |
| Hazard Class | 8 |
| Packing Group | III |
| EmS No. | F-A, S-B |
| Description | UN1805, Phosphoric acid solution, 8, III, Limited Quantity |

RID

| | |
|-----------------------------|---|
| UN-Number | UN1805 |
| Proper Shipping Name | Phosphoric acid, solution |
| Hazard Class | 8 |
| Packing Group | III |
| Classification Code | C1 |
| Description | UN1805, Phosphoric acid, solution, 8, III, Limited Quantity |

ADR

| | |
|--------------------------------|--|
| UN-Number | UN1805 |
| Proper Shipping Name | Phosphoric acid, solution |
| Hazard Class | 8 |
| Packing Group | III |
| Classification Code | C1 |
| Tunnel Restriction Code | (E) |
| Description | UN1805, Phosphoric acid, solution, 8, III, (E), Limited Quantity |

ADN

| | |
|-----------------------------|---|
| Proper Shipping Name | Phosphoric acid, solution |
| Hazard Class | 8 |
| Packing Group | III |
| Classification Code | C1 |
| Description | UN1805, Phosphoric acid, solution, 8, III, Limited Quantity |
| Limited Quantity | 5 L |

| |
|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

International Inventories

| | |
|--------------|----------|
| TSCA | Complies |
| IECSC | - |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-----------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Phosphoric acid | 5000 lb | | | X |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|-----------------|--------------------------|------------------------------------|--|
| Phosphoric acid | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|-----------------|------------|---------------|--------------|----------|--------------|
| Phosphoric acid | X | X | X | | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

| | | | | |
|-------------|-----------------|----------------|-------------------|---------------------------------|
| NFPA | Health Hazard 3 | Flammability 0 | Instability 0 | Physical and Chemical Hazards - |
| HMIS | Health Hazard 3 | Flammability 0 | Physical Hazard 0 | Personal Protection X |

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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet