Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

1736
1738

24k Gold Bath

Date Prepared	: 07.12.2023	Revision date	: -
Revision	: 0	SDS Number	: GBF - 4729

1- IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1- Product Identifier:

Product Name	**24K Gold Plating Bath**
UFI Code	No data available
Nanoform	The product does not contain nanoparticles.

1.2- Relevant identified uses of the substance advised against:

Identified uses	Electroplating Solution
Used advised against	No data available

1.3- Details of the supplier of the safety data sheet:

Company	**Durston Tools**
Address	Desborough Park Road, High Wycombe, Buckinghamshire, HP12 3DJ
Tel/Fax	+44 (0)1494 362 069
E-mail	support@durston.com

1.4- Emergency telephone number:

+44 (0)1494 362 069

2- HAZARDS IDENTIFICATION

2.1- Classification of the substance or mixture:

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
Hazard summary	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2- Label elements (according to EC 1272/2008):

Hazard pictograms	None
Signal word	None
Hazard statements	The mixture does not meet the criteria for classification.

Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

2.3- Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

3- COMPOSITION/INFORMATION ON INGREDIENTS

3.1- Substance

Not applicable

3.2- Mixture

Components:

Chemical Name	EC No.	CAS No.	%	Classification
Potassium dihydrogenorthophosphate	231-913-4	7778-77-0	1-20	Not Classified

Notes: For the full text of the H sentences mentioned in this Section, see Section 16.

4- FIRST AID MEASURES

4.1- Description of first aid measures

Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact	Wash off with soap and plenty of water. Consult a physician.
Eye contact	Flush eyes with water as a precaution.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2- Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3- Indication of any immediate medical attention and special treatment needed

Treat symptoms and eliminate overexposure.

5- FIRE FIGHTING MEASURES

5.1- Extinguishing Media

Suitable extinguishing media

Foam, dry chemicals, carbon dioxide and water mist must be used. Care should always be taken to create an escape route in the fire.

5.2- Special hazards arising from the substance or mixture

May emit toxic gases as carbon monoxide, carbon dioxide, etc.

5.3- Advice for firefighters

In case of a fire, use positive pressure air breathing apparatus and full protective clothing, suitable for use in closed areas.

6- ACCIDENTAL RELEASE MEASURES

6.1- Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2- Environmental precautions

Avoid release to the environment. If you can do it without a risk, avoid it. Ventilate the area. If the product gets into sewage or city waters, inform the authorities.

6.3- Methods and materials for containment and cleaning up

Provide appropriate personal protection. Clean spillage with dry sand or similar absorbent material (Chemizorb, vermiculite, sand, diatomite or similar inert material). Wash the spill area with water. Dispose of collected material according to local regulations.

6.4- References to other sections

For information on safe handling see section 7, for information on personal protection equipment see section 8, for disposal-related information see section 13.

7- HANDLING AND STORAGE

7.1- Precautions for safe handling

Ensure good ventilation in the workplace. Work with industrial hygiene standards and common rules to prevent inhalation, ingestion, exposure to the skin and skin during use of chemicals. Remove contaminated clothing and wash before using again. Do not eat, drink or smoke when using this product.

7.2- Conditions for safe storage, including any incompatibilities

Store in a well-ventilated, dry and cool places. Keep container tightly closed. Protect containers from physical damage and keep them closed and upright. Keep it in its original package. Make sure that the packing cover is tightly closed. Comply with local regulations.

7.3- Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1- Control parameters

Contains no substances with occupational exposure limit values.

DNEL Values

Substance	Community	Effects	Exposure	Value
Potassium dihydrogenorthophosphate	Workers	Systemic effects	Long term / Inhalation	14.82 mg/m^3
	General Population	Systemic effects	Long term / Inhalation	6.35 mg/m^3
	General Population	Systemic effects	Long term / Oral	70 mg/kg/gün

PNEC Values

Substance	Layer	Value	Evaluation factor
Potassium dihydrogenorthophosphate	No hazard identified.		

8.2- Exposure controls

General protection and hygiene measures:

Remove contaminated, contaminated clothing. Wash your hands at the end of the work and at work. Do not eat or drink any food when using this product.

Personal protective equipment/equipment:

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Protection of hands:

Use protective gloves.

It is sufficient to consider puncture resistance, permeability rates and deterioration in selection of gloves. Selected protective gloves must comply with EN 374 standards.

Glove material:

Gloves made of butyl rubber and/or PVA.

Eye protection:

Use safety goggles or face masks that have been tested and approved in accordance with standards such as EN 166 (EU). Contact lenses should not be worn. Use face shields where there is a high risk of splashing and where there is a risk of direct contact with vapors.

Body Protection:

Choose appropriate body protection according to the type, concentration and amount of dangerous substance, and workplace conditions. Use waterproof clothing or a chemical suit in accordance with EN 14605.

Environmental Exposure Controls

The provisions of existing legislation for the protection of the environment must be fully implemented.

9- PHYSICAL AND CHEMICAL PROPERTIES

9.1- Information on basic physical and chemical properties

Physical state	: Clear Liquid
Colour	: Clear
Odour	: Odourless
pH Value, @ 20°C	: 7,5
Melting point	: No data available
Boling point/boiling range	: No data available
Flammability	: Not applicable
Flash point (°C)	: Not applicable
Vapor pressure	: No data available
Viscosity, cP @ 25°C	: No data available
Density, gr/cm^3 @ 20 °C	: 1,010
Solubility in water	: No data available
Decomposition temperature (°C)	: No data available

9.2- Other information:

9.2.1- Information with regard to physical hazard classes:

No data available

9.2.2- Other safety characteristics:

Explosive properties	: No explosive properties.
Oxidising property	: No oxidizing property.

10- STABILITY AND REACTIVITY

10.1- Reactivity

Under normal conditions of use, there is no known hazardous reaction.

10.2- Chemical stability

Stable under recommended handling and storage conditions.

10.3- Possibility of hazardous reactions

No harmful reactions are to be expected when the product is handled and stored properly.

10.4- Conditions to avoid

Under the recommended storage and handling conditions there is not any conditions to avoid.

10.5- Incompatible materials

No data available

10.6- Hazardous decomposition products

No data available

11- TOXICOLOGICAL INFORMATION

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

Acute toxicity

Potassium dihydrogenorthophosphate (CAS# 7778-77-0)	
LD50 oral (rat)	> 2000 mg/kg bw
LD50 dermal (rat)	> 2000 mg/kg bw
LC50 inhalation (rat)	> 0.83 mg/l, air, 4 Hours

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (Single Exposure)

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (Repeated Exposure)

Based on available data, the classification criteria are not met.

Aspiration Hazard

Based on available data, the classification criteria are not met.

11.2- Information on other hazards

11.2.1- Endocrine disrupting properties

No test data is available for the mixture.

11.2.2- Other information

No test data is available for the mixture.

12- ECOLOGICAL INFORMATION

12.1- Toxicity

Potassium dihydrogenorthophosphate (CAS# 7778-77-0)		
LC50 Fish	> 100 mg/l, 96 Hours	(Oncorhynchus mykiss)
EC50 Aquatic invertebrates	> 100 mg/l, 48 Hours	(Daphnia magna)
EC50 Algae	> 100 mg/l, 72 Hours	(Desmodesmus subspicatus)

12.2- Persistence and degradability

No data available.

12.3- Bioaccumulative potential

No data available.

12.4- Mobility in soil

No data available.

12.5- Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6- Endocrine disrupting properties

No data available.

12.7- Other adverse effects

No data available.

13- DISPOSAL CONSIDERATIONS

13.1- Waste treatment methods

Removal of wastes must comply with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional and national requirements and should be followed.

14- TRANSPORT INFORMATION

Product is not classified as dangerous in the meaning of transport regulations (ADR/RID, ADN, IMDG and ICAO/IATA).

14.1-	UN number	Not regulated
14.2-	UN proper shipping name	Not regulated
14.3-	Transport hazard class(es)	Not regulated
14.4-	Packing Group	Not regulated
14.5-	Environmental hazard	Not regulated
14.6-	Special precautions for user	None
14.7-	Maritime transport in bulk according to IMO instruments	No information available

15- REGULATORY INFORMATION

15.1- Safety, health and environmental regulations/legislations specific for the substance or mixture

- Regulation (EC) No 1907/2006, (REACH),
- Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006,
- Regulation (EC) No 1272/2008 (CLP),
- Commission Directive 2006/15/EC,
- Commission Directive 2000/39/EC.
- ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

15.2- Chemical safety assessment

A chemical safety assessment has not been performed for this product.

16- OTHER INFORMATION

List of abbreviations

ADN	Regulation for the Carriage of Dangerous Substances on the Rhine
ADR	European Agreement Concerning the Int. Carriage of Dangerous Goods by Road
CAS No	Chemical Abstract Service Index Number
CLP	Regulation of Classification, Labelling and Packaging of Chemicals
EC No	European Commission Number
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LD50	Dosage producing 50% mortality
NIOSH	National Institute for Occupational Safety and Health
PBT	Persistent Bioaccumulative Toxic
REACH	Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals in the European Union
RID	International Rule for Transport of Dangerous Substances by Railway
vPvB	Very Persistent, Very Bioaccumulative

Other Information:

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Organized by	Gultekin Baskoylu (Chemist)

Sources of information:

- ECHA and related EU directives,
- UN ADR, IMDG, IATA lists,
- Safety data sheets for raw materials and product components,
- Other helpful resources.

Disclaimer

All information herein is believed to be correct based upon data obtained by the manufacturer and recognized sources but does not mean to be all inclusive and shall be used as a guide only.
It is the purchaser's/user's responsibility to follow the instructions on Safety, Health and Environmental and operational rules and regulations.
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