Mettler-Toledo AG

Process Analytics

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SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Buffer Solution pH 1.679

1.1. Product identifier

Product code 51319049, 51319000, 52118085

Synonyms

None.

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

Use of the	Laboratory chemicals
Substance/Preparation	

1.3. Details of the supplier of the safety data sheet

Company/Undertaking	Mettler-Toledo AG
Identification	Process Analytics
	Im Hackacker 15
	CH-8902 Urdorf
	Schweiz
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1.4. Emergency telephone number	+1-800-535 50 53 (Info Trac, 24 hrs)
Revision Date	27.05.2013
Version	6



2. Hazards identification

Causes severe skin burns and eye damage.

2.1. Classification of the substance or mixture

NFPA Ratings (Scale 0-4): HEALTH=3 FLAMMABILITY=0 REACTIVITY=1 SPECIAL=ACID HMIS Ratings (Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe): HEALTH=3 FLAMMABILITY=0 REACTIVITY=1 PROT. EQUIPMENT=C (Safety Glasses, Gloves, Protective apron)

Classification according to Skin corrosion/irritation, Cat. 1A, H314 Regulation (EC) No. 1272/2008 (GHS/CLP)

Additional informationFor the full text of the phrases mentioned in this Section, see
Section 16.

2.2. Label elements



Signal Word Hazard Statements Precautionary statements	 Danger H314: Causes severe skin burns and eye damage. P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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.
Additional advice	None.
GHS product identifier	Potassium tetraoxalate, CAS-No. 6100-20-5
2.3. Other hazards	No information available.



3. Composition/information on ingredients

Chemical characterization Buffer solution.

Components		GHS Classification	CAS	REACH No.
Deionised water	95% - 99%			
Potassium tetraoxalate	1% - 2.5%	Acute Tox. 4 H312, Acute Tox. 4 H302	6100-20-5	

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

4. First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Call a physician or Poison Control Center immediately.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Immediate medical treatment necessary as untreated skin corrosions are slow and bad healing wounds.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Consult an ophthalmologist.
Ingestion	Rinse mouth. Immediately give large quantities of water to drink. Induce vomiting if person is conscious. Obtain medical attention.
4.2. Most important symptoms and effects, both acute and delayed	None known.
4.3. Indication of any immediate medical attention and special treatment needed	None known.



5. Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	Use dry chemical, CO2, water spray or alcohol foam.
Extinguishing media which must not be used for safety reasons	None.
5.2. Special hazards arising from the substance or mixture	The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self contained breathing apparatus. Wear protective suit.
Specific methods	No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Use personal protective equipment. Sweep up to prevent slipping hazard. Ensure adequate ventilation.
Advice for emergency responders	Handle in accordance with good industrial hygiene and safety practice.
6.2. Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3. Methods and material for containment and cleaning up	Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.
6.4. Reference to other sections	See chapter 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes.
7.2. Conditions for safe storage, including any incompatibilities	Store at room temperature in the original container.
7.3. Specific end use(s)	No information available.



8. Exposure controls/personal protection

8.1. Control parameters	
Exposure limit(s)	No data is available on the product itself.
8.2. Exposure controls	
Occupational exposure controls	Avoid contact with skin, eyes and clothing.
Personal protection equipment	
Respiratory protection	In case of good ventilation no personal respiratory protective equipment required.
Hand protection	The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Hydrofluoric acid-resistant and solvent-resistant gloves (gloves made of VITON*).
Eye protection	Safety glasses with side-shields conforming to EN 166.
Skin and body protection	Long sleeved clothing.
Thermal hazards	No special measures required.
Environmental exposure controls	Prevent product from entering surface water or sewage.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	None.
Odour Threshold	No information available.
pH:	1.7
Melting point/range:	No information available.
Boiling point/range:	No information available.
Flash point:	No information available.
Evaporation Rate: Flammability: Explosion limits: Vapour pressure: Vapor density: Relative density: Water solubility: Partition coefficient (n- octanol/water):	No information available. No information available. No information available. No information available. No information available. No information available. completely miscible No information available.





Autoignition temperature: Decomposition temperature: Viscosity: Combustion/explosion hazards: Oxidizing properties: No information available. No information available. No information available. not hazardous None

9.2. Other information

10. Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	Stable at normal conditions.
10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Direct sources of heat.
10.5. Incompatible materials	Oxidizing agents. Reducing agents. Strong bases.
10.6. Hazardous decomposition products	None reasonably foreseeable.

11. Toxicological information

-	
Acute toxicity	No data is available on the product itself.
Skin corrosion/irritation	Causes burns. May cause irritation of the mucous membranes. May irritate skin.
Serious eye damage/eye irritation	Risk of serious damage to eyes.
Respiratory / Skin Sensitisation	No data available.
Carcinogenicity	No data available.
Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
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11.1. Information on toxicological effects

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Human experience	No data available.
Information on likely routes of exposure	dermal
Symptoms related to the physical, chemical and toxicological characteristics	Nausea. Vomiting. Irritating to skin and mucous membranes. Cough. Blood disorder may occur after ingestion. Kidney injury may occur. Circulatory collapse.

12. Ecological information

12.1. Toxicity	No information available. May change pH of waters.
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	No information available.
12.6. Other adverse effects	No information available.

13. Disposal considerations

13.1. Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product.

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14. Transport information

ADR/RID	Proper shipping name CORROSIVE LIQUID, N.O.S. (Potassium tetraoxalate) UN No 1760. Class 8. Packing group III. ADR/RID-Labels 8. Classification code C9. Risk No. 80. Limited quantity 5 L. Tunnel code E
ΙΜΟ	Proper shipping name Corrosive liquid, n.o.s. (Potassium tetraoxalate) UN No 1760. Class 8. Packing group III. ADR/RID-Labels 8. Limited quantity 5 L. EmS F-A, S-B. Marine Pollutant no
ICAO	Proper shipping name Corrosive liquid, n.o.s. (Potassium tetraoxalate) UN No 1760. Class 8. Packing group III. Packing instruction (passenger aircraft): 852 (5 L). Packing instruction (LQ): Y841 (1 L). Packing instruction (cargo aircraft): 856 (60 L).
Inland navigation ADN	Proper shipping name CORROSIVE LIQUID, N.O.S. (Potassium tetraoxalate) UN No 1760. Class 8. Packing group III. ADN danger 8+(N1, N2, N3, CMR, F oder S).
Further Information	None.



15. Regulatory information

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

Regulatory Information	NFPA Ratings (Scale 0-4): HEALTH=3 FLAMMABILITY=0 REACTIVITY=1 SPECIAL=ACID HMIS Ratings (Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe): HEALTH=3 FLAMMABILITY=0 REACTIVITY=1 PROT. EQUIPMENT=C (Safety Glasses, Gloves, Protective apron)
	The product is classified and labelled according to Regulation (EC) No. 1272/2008 (GHS/CLP).
15.2. Chemical safety assessment	Not required.

16. Other information

Key or legend to abbreviations and acronyms	None.
Key literature references and sources for data	Information taken from reference works and the literature.
Classification procedure	Calculation method.
Full text of phrases referred to under sections 2 and 3	H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage.
Disclaimer	The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.





