

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : ChloroChek® Reagent, Buffer solution

Product code : SS-248BS

Other means of identification : SDS Download URL: www.sds-id.com/

SDS-ID (International): 200063-3

1.2. Recommended use and restrictions on use

Use of the substance/mixture : In-Vitro laboratory reagent or component

1.3. Supplier

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qara_ebs@elitechgroup.com - www.elitechgroup.com

1.4. Emergency telephone number

Emergency number : Contact your distributor or poison control center in your country.

InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls outside the

USA, phone: +1 352-323-3500 (call collect)

Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone

number above).

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS US classification
acetic acid	CAS-No.: 64-19-7	2.5 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312
nitric acid	CAS-No.: 7697-37-2		Ox. Liq. 3, H272 Met. Corr. 1, H290 Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1, H314

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe

fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact : Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a

precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Not classified as flammable. Reactivity in case of fire : Product is not explosive.

Hazardous decomposition products in case of fire : No further relevant information available.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do

not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with Protective equipment

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

Ventilate area. **Emergency procedures**

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage.

Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling Wear personal protective equipment. Observe normal hygiene standards.

Hygiene measures Observe normal hygiene standards. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special requirements. No special requirements. Incompatible products Packaging materials No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ChloroChek® Reagent, Buffer solution

No additional information available

acetic acid (64-19-7)

USA - ACGIH - Occupational Exposure Limits	
Local name	Acetic acid
ACGIH OEL TWA [ppm]	10 ppm
ACGIH OEL STEL [ppm]	15 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; pulm func

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acetic acid (64-19-7)		
Regulatory reference	ACGIH 2023	
USA - OSHA - Occupational Exposure Limits		
Local name	Acetic acid	
OSHA PEL (TWA) [1]	25 mg/m³	
OSHA PEL (TWA) [2]	10 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	25 mg/m³	
NIOSH REL TWA [ppm]	10 ppm	
NIOSH REL (STEL)	37 mg/m³	
NIOSH REL STEL [ppm]	15 ppm	
nitric acid (7697-37-2)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Nitric acid	
ACGIH OEL TWA [ppm]	2 ppm	
ACGIH OEL STEL [ppm]	4 ppm	
Remark (ACGIH)	TLV® Basis: URT & eye irr; dental erosion	
Regulatory reference	ACGIH 2023	
USA - OSHA - Occupational Exposure Limits		
Local name	Nitric acid	
OSHA PEL (TWA) [1]	5 mg/m³	
OSHA PEL (TWA) [2]	2 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	5 mg/m³	
NIOSH REL TWA [ppm]	2 ppm	
NIOSH REL (STEL)	10 mg/m³	
NIOSH REL STEL [ppm]	4 ppm	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Not required for normal conditions of use.

Hand protection:	
Wear protective gloves.	

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Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)		> 0.1	EN 374
Eye protection:				

Wear eye protection.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s):







Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance Liquid. Color Colorless

Odor Characteristic odour

Odor threshold ≥ mg/m³ 2.1 (at 20 °C) рΗ Melting point : 0 °C

Freezing point

No data available

: 100 °C Boiling point

No data available Flash point Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Non flammable.

Vapor pressure 23 hPa (at 20 °C; 17.3 mm Hg)

Relative vapor density at 20°C No data available Relative density No data available Density : 1.0037 g/cm³ (at 20 °C) Solubility Miscible with water. Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : Product is not self igniting

Decomposition temperature : No data available No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosion limits** No data available Explosive properties Not explosive. Oxidizing properties No data available

9.2. Other information

VOC content : 4.68 %

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 6 day(s))
LD50 dermal rabbit	1060 mg/kg (Rabbit)

Skin corrosion/irritation : Not classified.

pH: 2.1 (at 20 °C)

Serious eye damage/irritation Not classified

pH: 2.1 (at 20 °C)

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified : Not classified Carcinogenicity Reproductive toxicity Not classified STOT-single exposure Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified Viscosity, kinematic No data available

Potential Adverse human health effects and Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified

12.2. Persistence and degradability

ChloroChek® Reagent, Buffer solution

Persistence and degradability Not established.

12.3. Bioaccumulative potential

ChloroChek® Reagent, Buffer solution

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated Proper Shipping Name (TDG) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

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IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated Packing group (TDG) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

nitric acid CAS-No. 7697-37-2 < 1%

acetic acid (64-19-7)

CERCLA RQ 5000 lb

nitric acid (7697-37-2)	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

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15.2. International regulations

CANADA

acetic acid (64-19-7)

Listed on the Canadian DSL (Domestic Substances List)

nitric acid (7697-37-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

acetic acid (64-19-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

nitric acid (7697-37-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
acetic acid(64-19-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
nitric acid(7697-37-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Other information : None.

Full text of H-phrases		
H226	Flammable liquid and vapor	
H272	May intensify fire; oxidizer	
H290	May be corrosive to metals	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H331	Toxic if inhaled	
H332	Harmful if inhaled	

Safety Data Sheet (SDS), USAThis information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.