
 greiner bio-one Page 1 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200		 greiner bio-one A AN SOP 04.03.02-300 Rev.00 Valid from: 09/22/2014
	Greiner Bio-One Saliva Quantification Kit		
	GREINER Bio-One GmbH, Bad Haller Straße 32, A-4550 Kremsmünster		

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Greiner Bio-One Saliva Quantification Kit
- **Manufacturer/Supplier:**

AUSTRIA	USA
Greiner Bio-One GmbH	Greiner Bio-One North America Inc.
Bad Haller Strasse 32	4238 Capital Drive
A-4550 Kremsmünster,	Monroe, NC 28110
Tel: (++43) 7583 6791-0	Tel: (++1) 888-286-3883
Fax: (++43) 7583 6318	FAX: (++1) 800-726-0052
Email: office@at.gbo.com	Email: info@us.gbo.com
- **Emergency Information:**
In case of chemical emergency, spill, fire, exposure, or accident contact:

AUSTRIA	USA
Greiner Bio-One GmbH	Greiner Bio-One North America Inc.
Tel: (++43) 7583 6791-0	Tel: (++1) 888-286-3883

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

- **Description:** Brown glass vials with

Chemical name:	CAS No.	Quantity of substances:
Sodium azide	26628-22-8	< 1 %
Ammonium sulfate	7783-20-2	< 1 %
Tartrazin	1934-21-0	< 1 %
Monosodium dihydrogen citrate	18996-35-5	< 1 %
Trisodium citrate dihydrate	6132-04-3	< 1 %

SECTION 3: HAZARDS IDENTIFICATION



- **Hazard description:**
Very toxic
Hazardous to the environment
Special danger warning for men and environment:
 - Very toxic if swallowed
 - Develops very toxic gas in contact with acid
 - Very toxic for water organism, may have longer-term harmful impact on water

SECTION 4: FIRST AID MEASURES

- **General:** Remove contaminated clothing immediately. Victim should not be provoked to vomiting unless it is done by a medical expert.
- **Skin:** Wash with copious amounts of water immediately. Get medical attention.
- **Eyes:** Flush eyes with copious amounts of water for at least 10 minutes. Get medical attention.
- **Inhalation:** Remove to fresh air and get medical attention.
- **Ingestion:** Get medical attention immediately. Victim should drink copious amounts of water to dilute.

SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable extinguishing media:** Use extinguishing media appropriate for metal fire.
- **Unsuitable extinguishing media:** Water
- **Specific hazards:** Nitro gas may be emitted under fire conditions
- **Protective equipment:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full-face piece operated in positive pressure mode.

 greiner bio-one Page 2 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200		 greiner bio-one A AN SOP 04.03.02-300 Rev.00 Valid from: 09/22/2014
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SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Avoid overexposure. Wear suitable protective clothing.
- **Environmental precautions:** Do not allow to enter ground water, waterways or waste water.
- **Methods for cleaning up:** Carefully remove mechanically.

SECTION 7: HANDLING AND STORAGE

- **Handling:**
Advice for safe handling: Appropriate handling according to laboratory directives for chemicals.
Information about protection against explosions and fires: Avoid contact with incompatible material, minimize dust generation and accumulation. Material must be handled with adequate ventilation.
- **Storage:**
Requirements to be met by storerooms and receptacles: Keep container closed when not in use. Store in a cool, dry, well-ventilated area.
 Store away from incompatible substances.
 Store away from acids.
 Store away from foods.
Information about storage in one common storage facility: Keep container closed when not in use. Store in a cool, dry, well-ventilated area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Additional information about design of technical systems:** as per section 7.
- **Components with critical values to be monitored depending on the working place:**
26628-22-8 Sodium azide

MAK	0.2 mg/m ³
MAK (TRGS 900)	0.2 mg/m ³
	DFG

Additional remarks: The data are based on valid lists at the time of edition.
- **Personal protective equipment:**
General protective and hygienic measures: Keep away from foods, beverages and animal feed. Remove contaminated clothes immediately. Wash thoroughly after handling and before reuse. Avoid contact with eyes and skin.
Breathing equipment: None required, where adequate ventilation conditions exist. For conditions where dust is apparent and engineering controls are not feasible, a NIOSH/MSHA approved respirator is recommended. If concentration exceeds capacity of respirator, a self-contained breathing apparatus is recommended.
Hand protection: Wear appropriate protective gloves to prevent skin exposure.
Eye protection: Use chemical safety goggles
Body protection: Wear appropriate protective clothing to prevent skin exposure.

 greiner bio-one Page 3 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200		 greiner bio-one A AN SOP 04.03.02-300 Rev.00 Valid from: 09/22/2014
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

• General information

Component	Form:	Color:	Odor:	Change in condition		Flammability (solid, gaseous)	Density
				Melting point	Boiling point		
Sodium azide	solid	white	odorless	275 °C	300 °C	Not inflammable	1.845 g/cm ³
Ammonium sulfate	solid	colorless	odorless	n.a.	n.a.	n.a.	1.77 g/cm ³
Tartrazin (E 102)	solid	yellow	n.a.	n.a.	n.a.	n.a.	n.a.
Monosodium dihydrogen citrate	solid	colorless/white	odorless	200 °C	n.a.	n.a.	n.a.
Trisodium citrate dihydrate	solid	white	odorless	150 °C	n.a.	n.a.	1.76 g/cm ³

SECTION 10: STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to avoid:** Thermic stress
- **Materials to avoid:** Oxidizing agents, acids, heavy metals, metal salts, bromine, copper, dichloromethane, carbon disulfide, sulfuric acid, water.
- **Dangerous reactions:** Not established
- **Hazardous decomposition products:** Not established

SECTION 11: TOXICOLOGICAL INFORMATION



- **Acute toxicity** oral (LD 50 rat 27 mg/kg)
dermal (LD 50 rabbit 20 mg/kg)
- **Primary irritant effect:**
 - Eye:** Lightly irritating to the eyes.
 - Skin:** Lightly irritating to the skin. Hazard of skin resorption.
 - Inhalation:** Irritation of mucous membrane, cough, respiratory depression.
 - Sensitization:** Not established
- **Additional toxicological information:**
 - Ingestion:** After swallowing, irritating to the mouth, throat, esophagus, gastrointestinal tract. Systemic effects may cause CNS failures, cardiovascular collapse, blood pressure decline, cough, respiratory depression, spasma, headache, vertigo, nausea, vomiting, collapse, absence.

SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicological effects:**
 - Aquatic toxicity:**
 - Fish toxicity:
 - LC 50: 0.7 mg/1/96h *Lepomis macrochirus*
 - Remark:** Very toxic to aquatic life in high concentrations, may cause long-term damage to water. Do not allow to enter ground water, waterways or waste water.

SECTION 13: DISPOSAL CONSIDERATION

- **Product:**
 - Recommendation**
 - Disposal should be done in accordance with all federal, state and local environmental regulations. Disposal must be made according to the regulations found in 40 CFR 261.
- **Packaging:**
 - Recommendation**
 - Disposal should be done in accordance with all federal, state and local environmental regulations. Disposal must be made according to the regulations found in 40 CFR 261.

 greiner bio-one Page 4 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200		 greiner bio-one A AN SOP 04.03.02-300 Rev.00 Valid from: 09/22/2014
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SECTION 14: TRANSPORT INFORMATION

- **DOT regulations:** Not regulated
- **Land transport ADR/RID:** Not regulated
- **Maritime transport IMDG:** Not regulated
- **Air transport ICAO-TI and IATA-DGR:** Not regulated

SECTION 15: REGULATORY INFORMATION

- **Hazard Communication Standard (HCS) 29 CFR 1910.1200(g), revised in 2012**
- **EC guidelines: 91/155/EED, 93/112, 88/379/EC**
- **National regulations: Chemical (Hazard Information and Packaging) Regulations: ChemG (Austria)**
- **Water hazard class:** N/A
- **Note:** Please note that there may be additional legal provisions to be observed. We recommend that you keep yourself informed about all applicable international, national and local regulations.

SECTION 16: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Greiner Bio-One nor any of its subcontractors or suppliers assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.