



# MATERIAL SAFETY DATA SHEET

According to 1907/2006/EG

## 1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product name      Simple Simon<sup>®</sup>PT  
Code                    ZAF 101
- 1.2 Recommended use    In-vitro diagnostic
- 1.3 Manufacturer        ZAFENA AB  
Husbyvägen 16  
590 31 Borensberg  
SVERIGE  
Tel: +46-141-405 20  
Fax: +46-141-405 08  
e-mail: mats@zafena.se
- 1.4 Emergency phone:    +46-112, Swedish Poisons Information Centre

## 2. HAZARDS IDENTIFICATION

**Hazards identification to health and environment:** Harmful. Health hazard upon ingestion. Harmful to water-living organisms, can cause long-term damage in water-environments.

The buffer, ZAF 101-2, and consequently the reagent contains 0,4% sodiumazide to prevent bacterial growth and to transfer haemoglobin into a form that permits an accurate and precise EVF determination. Azide is a rapidly acting poison which inhibits oxygen transport to cells. Do not drink or in any other way ingest the buffer or the reconstituted reagent. Do not pour buffer or reconstituted reagent into sewers with pipes of lead or copper. Azide reacts to named metals into explosive compounds.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

Preparation	CAS-nr	EINECS-nr	Annex 1 index-nr	Klassificering
Simple Simon buffer (Sodiumazide 0,4%)	none	none	none	Harmful Xn,R22-52/53
<b>Compound</b> Sodiumazide	26628-22-8	247-852-1	011-004-00-7	Highly toxic upon ingestion. Develops highly toxic gas in contact with acid. Highly toxic to water-living organisms, Can cause damaging long-term effects to aquatic-environments. T+,N,R28-32-50/53

## 4. FIRST AID MEASURES

**Sodiumazide** (pure form)

**Eyes:** If substance comes in contact with eyes, flush with plenty amounts of isotonic saline, which should be tempered, (20-30°C), for minimum 15 minutes. Get medical attention immediately.

**Skin:** If substance comes in contact with skin, flush with plenty amounts of water. Remove contaminated clothes and shoes. Get medical attention.

**Ingestion:** Flush mouth with water. Get medical attention immediately.

**Inhaling:** Remove person to fresh air. Get medical attention immediately.



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## 5. FIRE-FIGHTING MEASURES

- 5.1 Fire Extinguishing Media: Suitable: Water spray, dry chemical, alcohol foam, or carbon dioxide.  
5.2 Special risks: Poisonous gases are produced in fire, including nitrogen oxides.  
5.3 Special information: Use breathing protection and protective clothing, avoid contact with eyes and skin .

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions: Use protective gloves, avoid substance contact.  
6.2 Cleanup procedures: Take up dry and discard according to local and national regulations.

## 7. HANDLING AND STORAGE

- 7.1 Handling precautions: Avoid inhaling. Avoid contact to eyes, skin and clothing. Avoid prolonged and repeated exposure.  
7.2 Storage: Store at 2-8°C in original vial.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- 8.1 General: The usual precautionary measures are to be adhered to when handling biochemical material. Wash hands properly after handling  
8.2.1 Breathing protection: Not necessary when ventilation is normal.  
8.2.2 Protection of hands: Use protective gloves, impermeable and resistant to the substance  
8.2.3 Eye protection: No particular protection requirements.  
8.2.4 Protective clothing: Protective clothing is not necessary

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance	Liquid
	Colour	Slightly yellow
	Odour	Odourless
9.2	pH	~7
	Boiling point	not applicable
	Flashpoint	not applicable
	Inflammability	not applicable
	Explosive properties	not applicable
	Oxidizing properties	not applicable
	Vapour pressure	not applicable
	Density	not applicable
	Solubility	not applicable
	Soluble in water	yes
	Viscosity	not applicable

## 10. STABILITY AND REACTIVITY

- 10.1 Stability: Stable  
10.2 Hazardous materials: Powerful oxidizing materials.  
Certain metals as lead and copper  
Acids  
10.3 Hazardous decomposition products: Contact with acid produces nitrous gases.



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Contact with lead and copper forms explosive metal-azides.

### 11. TOXIKOLOGICAL INFORMATION

To our knowledge, the complete chemical, physiological and toxicological properties have not been completely explored.

Skin contact: Can cause irritation.

Eye contact: Can cause irritation.

Inhaling: Can cause irritation.

Ingestion: Harmful.

Literature reports on lethal doses of sodiumazide being >10mg/kg body-weight.

Side-effects have been reported at doses of 0.01mg/kg to 2mg/kg. These data concerns oral intake.

The most frequent side-effect is fall in blood pressure. [ Chang S., S. H. Lamm. 2003. Human Health Effects of Sodium Azide Exposure: A Literature Review and Analysis. *International Journal of Toxicology*,22: 175-186].

One vial of Simple Simon PT buffer contains 32mg sodiumazide. If a person weighting 60 kg drinks one vial Simple Simon PT buffer, the dose will be 32/60= 0,53mg/kg. To reach lethal dose levels, a person of 60 kg needs to drink more than 19 vials of Simple Simon PT buffer.

Sodiumazide (pure form): LD<sub>50</sub> oral rat:27 mg/kg

### 12. ECOLOGICAL INFORMATION

No data available.

Sodiumazide (pure form): LC<sub>50</sub> Fish 96 h: 5.46mg/l Species: Pimephales promelas

EC<sub>50</sub> Daphnia 48 h: 4.2 mg/l Species: D.pulex

### 13. DISPOSAL CONSIDERATIONS

Do not pour product leftovers in sewers with pipes of lead or copper.

Disposal handling should be according to national or regional regulations.

Disposal from Simple Simon PT is suitable sorted as combustible waste.

When incinerated in air at temperatures above >330°C sodiumazide is decomposed into nitrogen gas and sodium hydroxide [ American Conference of Governmental Industrial Hygienists ( ACGIH) 1991].

### 14. TRANSPORT INFORMATION

Not subject to transport regulations.

### 15. REGULATORY INFORMATION

Classification and marking information is according to EU-directive 67/548/EEG.

Material safety data sheet is designed according to EU- directive 1907/2006/EG.

Risk marking: Xn; harmful.

### 16. OTHER INFORMATION

Risk phrases: 52/53-22; Harmful to water-living organisms, can cause harmful long-term effects in water environment. Harmful when ingested.

Protective phrases: 61; Avoid discharge into environment.

Precautions: Compound is not completely examined.

Zafena considers this information to be correct but it should not be regarded as complete, but for guidance. It is provided with the aim of allowing proper and safe use, storage, transportation and disposal of the product. The product is only for in vitro diagnostics.