

1 Identification

- **Product identifier**
- **Trade name:** SYSTEM SOLUTION
- **Article number:** SLSY-5905
- **Application of the substance / the mixture**
 Accessory to an IN VITRO diagnostic device
 Cleaning solution for ELITech Clinical Systems equipments.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 ELITech Clinical Systems SAS
 Zone Industrielle
 61500 Sées • France
 Tel : +33 (0)2 33 81 21 00
 Fax : +33 (0)2 33 28 77 51
 www.elitechgroup.com
 MSDS.ECS-SAS@elitechgroup.com
- **Information department:** Product safety department
- **Emergency telephone number:** Contact your distributor or poison control center in your country.

2 Hazard(s) identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008 -**
- **Hazard pictograms -**
- **Signal word -**
- **Hazard statements -**

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**
 Mixture of substances.
 Aqueous solution.
- **Dangerous components:** No dangerous component in reportable quantity.

CAS NO.	Description	%
-		

4 First-aid measures

- **Description of first aid measures**
- **General information:** Show this safety data sheet to the doctor in attendance.
- **After inhalation:**
 Supply fresh air.
 Move out of dangerous area.
 If required, provide artificial respiration.
 If symptoms appear, seek medical advice.
- **After skin contact:**
 Rinse with water.
 If symptoms appear, seek medical advice.
- **After eye contact:**
 Protect unharmed eye.
 Remove contact lenses, if present and easy to do.
 Rinse opened eye for several minutes under running water. If symptoms appear, seek medical advice.
- **After swallowing:**
 Never give anything by mouth to an unconscious person.
 Rinse out mouth.
 Seek advice from a doctor or a poison control center.
- **Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in sections 2 and 11.
- **Indication of any immediate medical attention and special treatment needed** Call a person trained in first aid / a doctor.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
 Use fire fighting measures that suit the environment.
 CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **Special hazards arising from the substance or mixture** Dangerous decomposition products may be formed.
- **Advice for firefighters**
- **Protective equipment:** As in any fire, wear a respiratory protective device, and full protective gear.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation
 - Wear protective clothing.
 - Avoid physical contact with material.
- **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
- **Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
 - Clean the affected area carefully.
- **Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
26628-22-8	sodium azide	0.026 mg/m ³
· PAC-2:		
26628-22-8	sodium azide	0.29 mg/m ³
· PAC-3:		
26628-22-8	sodium azide	5.3 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Avoid physical contact with material.
 - Observe the warnings on the label.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
 - Keep container tightly closed.
 - Protect the product from light. Avoid exposure to heat.
 - **Recommended storage temperature:** 2-25 °C
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - Information on components:

26628-22-8 sodium azide (<0.1%)	
REL	Ceiling limit value: 0.3** mg/m ³ , 0.1* ppm *as HN ₃ ; **as NaN ₃ ; Skin
TLV	Ceiling limit value: 0.29** mg/m ³ , 0.11* ppm *as HN ₃ vapor **as NaN ₃

· **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
 - **General protective and hygienic measures:**
 - The usual precautionary measures for handling chemicals should be followed.
 - Avoid physical contact with material.
 - Wash hands before breaks and at the end of work.
 - The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 - **Breathing equipment:**
 - Under good ventilation/exhaustion at the workplace, the use of these products should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

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Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

· *Protection of hands:*



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

· *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· *Penetration time of glove material* The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· *Eye protection:*

Goggles recommended during refilling.

Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

· *Body protection:* Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· *Appearance:*

· <i>Form:</i>	Liquid
· <i>Color:</i>	Colorless
· <i>Odor:</i>	Odorless
· <i>Odor threshold:</i>	Not determined.

· **pH-value at 20 °C (68 °F):** 7.4

· **Change in condition**

· <i>Melting point:</i>	Not applicable.
· <i>Boiling point/Boiling range:</i>	Not determined.
· <i>Solidification point:</i>	Not determined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapor pressure:** Not determined.

· **Density:**

· <i>Relative density at 20 °C (68 °F)</i>	0.997 g/cm ³ (8.32 lbs/gal)
· <i>Vapor density</i>	Not determined.
· <i>Evaporation rate</i>	Not determined.

· **Solubility in / Miscibility with**

· *Water:* Miscible

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· *Dynamic:* Not determined.

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** See § Possibility of hazardous reactions.

· **Chemical stability** Stable under recommended storage conditions.

· **Possibility of hazardous reactions**

No dangerous reactions if used according to specifications.

Sodium azide, contains in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** Sodium azide (26628-22-8) : incompatible with acids, and some metals; forms explosion-sensitive compounds.

· **Hazardous decomposition products:** None expected under normal condition of use.

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· **Additional information:** Stable at the recommended storage temperature and if protected from light. Avoid exposure to heat.

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

Information on components:

26628-22-8 sodium azide

Oral	LD50	27 mg/kg (mouse)
Dermal	LD50	20 mg/kg (rabbit)
Inhalative	LC50	37 mg/m3 (rat)

· **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.

· **Sensitization:** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

Ingestion of large amount of sodium azide may cause nausea, vomiting and in certain circumstances respiratory difficulties, high pulse rate and/or hypersensitivity.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)** None of the ingredient is listed.

· **NTP (National Toxicology Program)** None of the ingredient is listed.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** 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.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

Information on components:

26628-22-8 sodium azide

EC50/48h	4.2 mg/l (Daphnia)
LC50/96h	0.68 mg/l (Lepomis macrochirus)

· **Persistence and degradability** Data not available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** Data not available.

· **Mobility in soil** Data not available.

· **Additional ecological information:**

· **General notes:**

At present there are no ecotoxicological assessments.

Not hazardous for water.

Prevent seepage into sewage system, workpits and cellars.

Disposal procedures have to be respected, see Section 13.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:** Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:**

Sodium azide, contained in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.

· **Primary packaging:** Plastic vial (composed of polyethylene high density)

14 Transport information

· **UN-Number** Not applicable.

· **DOT, ADR, ADN, IMDG, IATA** -

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA** -

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· Transport hazard class(es)	
· <i>DOT, ADR, IMDG, IATA</i>	
· <i>Class</i>	-
· Packing group	
· <i>DOT, ADR, IMDG, IATA</i>	-
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

15 Regulatory information

- **SARA**
- *Section 302/304 (40CFR355.30 / 40CFR355.40):* None of the ingredient is in reportable quantity.
- *Section 313 (Specific toxic chemical listings):* Not regulated.
- **TSCA (Toxic Substances Control Act):** This product is regulated by the Food and Drug Administration; it is exempt from requirements of TSCA.

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- *Chemicals known to cause cancer:* None of the ingredients is listed.
- *Chemicals known to cause reproductive toxicity for females:* None of the ingredients is listed.
- *Chemicals known to cause reproductive toxicity for males:* None of the ingredients is listed.
- *Chemicals known to cause developmental toxicity:* None of the ingredient is listed.

- **Carcinogenic categories**

- *EPA (Environmental Protection Agency)* None of the ingredient is listed.

- **TLV (Threshold Limit Value)**

26628-22-8 | sodium azide

A4

- *NIOSH-Ca (National Institute for Occupational Safety and Health)* None of the ingredient is listed.

- *OSHA-Ca (Occupational Safety & Health Administration)* None of the ingredient is listed.

- **U. S. State Regulations:**

- **PA-RTK**

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- **NJ-RTK**

26628-22-8 | sodium azide

- **MA-RTK**

26628-22-8 | sodium azide

- **RI-RTK**

26628-22-8 | sodium azide

- **US Federal Regulation** This mixture is an accessory to an IN VITRO diagnostic device.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing SDS:** Product safety department

- **Contact:** Product safety department

- **Document reference:**

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NOEC: No Observed Effect Concentration
 EC50: Effective concentration, 50 percent
 IC50: Inhibitory concentration, 50 percent.
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit