

**1. Identification of the substance/preparation and of the company**

Product name: AIA-PACK Reagent Series
 Use of the substance: AIA-PACK Reagent Series for in vitro diagnostic use
 Catalog number: Refer to ANNEX 1.

Company Identification:
 Manufacturer: Tosoh Corporation
 Shiba-Koen First Building
 3-8-2, Shiba Minato-ku
 Tokyo 105-8623 (JAPAN)

Supplier: Tosoh Bioscience, Inc.
 6000 Shoreline Ct., Ste. 101
 S. San Francisco, CA 94080

Product information
 (6 a.m. to 5 p.m. PST) 1-800-248-6764

Medical Emergencies (24 HR): Hazard Information Services
 1-800-228-5635
 612-221-3999

DOT Emergency (24 HR): Hazard Information Services
 1-800-228-5635
 612-221-3999

2. Composition/information on substances

Substance/Preparation: Preparation

Ingredient name	CAS number	% (optional)
Sodium azide	26628-22-8	<1

3. Hazards identification

Classification: Xn; R22
 R32
 R52/53

Physical/chemical hazards: Not applicable

Human health hazards: Harmful if swallowed.
 Contact with acids liberates very toxic gas.

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



4. First aid measures

Effects and symptoms

- Inhalation:** No known significant effects or critical hazards.
- Ingestions:** Harmful if swallowed.
- Skin contact:** No known significant effects or critical hazards.
- Eye contact:** No known significant effects or critical hazards.

First aid measure:

- Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call physician immediately.
- Skin contact:** In case of skin contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- Eye contact:** In case of eye contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

5. Fire-fighting measures

- Extinguishing media:** Use an extinguishing agent suitable for surrounding fires.
- Special exposure hazards:** No specific hazards.
This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Special protective equipment for fire fighters:** Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions:** Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up:** If emergency personnel are unavailable, vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid dusty conditions and prevent wind dispersal.



7. Handling and storage

Handling:	Do not ingest. Avoid contact of spilled material and runoff with soil and surface waterways. Wash thoroughly after handling.
Storage:	Keep container closed and in a cool, well-ventilated area.
Packaging materials:	Use original containers when able.
Specific uses:	Not applicable.

8. Exposure controls/personal protection

Exposure controls

Occupational exposure controls:

Use process enclosures, local exhaust ventilation or other engineering controls to keep the airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Respiratory protection: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates that this is necessary. Respirator selection must be based upon known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection: Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates that this is necessary.

Recommended: 4-8 hours breakthrough time nitrile rubber gloves.

Eye protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to liquid splashes, mists or dusts.

Recommended: Safety glasses with side shields.

Skin protection Personal protective equipment for the body should be selected based upon the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended: Lab coat.

**9. Physical and chemical properties**

Physical state:	Solid
Color:	Colorless
Odor:	Odorless
pH:	Not available
Boiling point:	Not available
Melting point:	Not available
Flash point:	Not available
Flammability (solid/gas):	Not applicable
Explosive properties:	Explosive in presence of organic materials, of metals
Explosive limits:	Not available
Oxidizing properties:	Not available
Vapor pressure:	Not available
Specific gravity:	Not available
Solubility:	Easily soluble in cold water
Octanol/water partition coefficient:	Not available
Viscosity:	Not available
Vapor density:	Not available
Evaporation rate (butyl acetate = 1):	Not available
Auto-ignition temperature:	Not available

10. Stability and reactivity

Stability:	The product is stable.
Conditions to avoid:	Not available
Materials to avoid:	Keep away from acids, organic materials and metals
Hazardous decomposition products:	Not available

11. Toxicological information

Potential acute health effects:

Inhalation:	No known significant effects or critical hazards.
Ingestion:	Harmful if swallowed.
Skin contact:	No known significant effects or critical hazards.
Eye contact:	No known significant effects or critical hazards.

Acute toxicity:

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Sodium azide	LD50	27 mg/kg	Oral	Rat
	LD50	20 mg/kg	Dermal	Rabbit

Potential chronic health effects:

Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Reproductive Toxicity:	No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Inhalation:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.
Skin:	No known significant effects or critical hazards.
Target organs:	Not available

**12. Ecological information**

Ecotoxicity data:

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Sodium azide	Daphnia pulex (EC50)	48 hours	4.2 mg/L
	Lepomis macrochirus (LC50)	96 hours	0.68 mg/L
	Oncorhynchus mykiss (LC50)	96 hours	0.8 mg/L

Other ecological information:

Mobility: Not available

Other adverse effects: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and run-off and avoid contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

14. Transport informationInternational transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information if required
ADR/RID Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
ADN Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
IMDG Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
IATA-DGR Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available

**15. Regulatory information**

Hazard symbols:

Harmful

Risk phrases:

R22- Harmful if swallowed.

R32- Contact with acids liberates very toxic gas.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S60- This material and its container must be disposed of as hazardous waste.

Product use:

Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use. Consumer applications.

16. Other information

History:

Date of issue:	October 9, 2007
Date of previous issue:	November 30, 2005
Version:	2.0
Prepared by:	Caroline Hodur

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries 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.

**ANNEX 1****Detailed List of Products and Catalogue Numbers**

Catalogue Number	AIA-Pack 40 min version	Catalogue Number	AIA-Pack 10 min version ST
020202	AIA PACK 27.29	025202	ST AIA PACK 27.29
020251	AIA PACK TSH	025204	ST AIA PACK Testosterone
020252	AIA PACK AFP	025205	ST AIA PACK Troponin I 2G
020253	AIA PACK Ferritin	025252	ST AIA PACK AFP
020254	AIA PACK CEA	025253	ST AIA PACK Ferritin
020255	AIA PACK Prolactin	025254	ST AIA PACK CEA
020258	AIA PACK T4	025255	ST AIA PACK Prolactin
020259	AIA PACK BMG	025258	ST AIA PACK T4
020260	AIA PACK Insulin	025259	ST AIA PACK BMG
020261	AIA PACK β -hCG	025260	ST AIA PACK Insulin
020262	AIA PACK PAP	025261	ST AIA PACK β -hCG
020263	AIA PACK PA	025262	ST AIA PACK PAP
020265	AIA PACK FSH	025263	ST AIA PACK PA
020266	AIA PACK HGH	025265	ST AIA PACK FSH
020268	AIA PACK FT4	025266	ST AIA PACK HGH
020274	AIA PACK Estradiol	025268	ST AIA PACK FT4
020281	AIA PACK Progesterone	025269	ST AIA PACK CK-MB
020282	AIA PACK TT3	025274	ST AIA PACK Estradiol
020284	AIA PACK C-peptide	025281	ST AIA PACK Progesterone
020286	AIA PACK FT3	025282	ST AIA PACK TT3
020287	AIA PACK Cortisol	025284	ST AIA PACK C-peptide
020290	AIA PACK TPO Ab	025286	ST AIA PACK FT3
020291	AIA PACK Tg Ab	025287	ST AIA PACK Cortisol
020292	AIA PACK Folate	025294	ST AIA PACK TSH
020293	AIA PACK Vitamin B12	025295	ST AIA PACK IGE II
020294	AIA PACK TSH3G	025296	ST AIA PACK LH II
020295	AIA PACK IgE II	025297	ST AIA PACK Myoglobin
020296	AIA PACK LH II	025213	ST AIA PACK intact PTH
020270	AIA PACK T-U	025214	ST AIA PACK T-U