



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

Product name: AIA-PACK Calibrator Series (Liquid)

Use of the substance: AIA-PACK Calibrator 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, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills, surround spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.



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:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: Use a properly fitted, air-purifying or air-fed 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:	Liquid
Color:	Colorless
Odor:	Odorless
pH:	7 to 8
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 axide	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 information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information if required
ADR/RID Class	3287	TOXIC LIQUID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
ADN Class	3287	TOXIC LIQUID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
IMDG Class	3287	TOXIC LIQUID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
IATA-DGR Class	3287	TOXIC LIQUID, 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
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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	Description
020302	AIA PACK Calibrator 27.29
020351	AIA PACK Calibrator TSH
020352	AIA PACK Calibrator AFP
020353	AIA PACK Calibrator Ferritin
020354	AIA PACK Calibrator CEA
020355	AIA PACK Calibrator Prolactin
020358	AIA PACK Calibrator T4
020359	AIA PACK Calibrator BMG
020360	AIA PACK Calibrator Insulin
020361	AIA PACK Calibrator B-HCG
020362	AIA PACK Calibrator PAP
020363	AIA PACK Calibrator PA
020365	AIA PACK Calibrator FSH
020366	AIA PACK Calibrator HGH
020368	AIA PACK Calibrator FT4
020369	AIA PACK Calibrator CK-MB
020374	AIA PACK Calibrator Estradiol
025374	ST AIA PACK Calibrator Estradiol
020381	AIA PACK Calibrator Progesterone
020382	AIA PACK Calibrator TT3
020384	AIA PACK Calibrator C-peptide
020386	AIA PACK Calibrator FT3
020387	AIA PACK Calibrator Cortisol
020390	AIA PACK Calibrator TPO Ab
020391	AIA PACK Calibrator Tg Ab
020392	AIA PACK Calibrator Folate
020393	AIA PACK Calibrator Vitamin B12
020394	AIA PACK Calibrator TSH3G
020395	AIA PACK Calibrator IgE II
025304	ST AIA PACK Calibrator Testosterone
025305	ST AIA PACK Calibrator Troponin I 2G
025397	ST AIA PACK Calibrator Myoglobin
025313	ST AIA PACK Calibrator intact PTH
020396	AIA PACK Calibrator LH II
025396	ST AIA PACK Calibrator LH II
020388	ST AIA PACK Calibrator CA 125
020371	ST AIA PACK Calibrator CA 19-9