

Printing date 08/31/2010 Reviewed on 08/31/2010

1 Identification of substance

· Product details

• Trade name: AIA-PACK B12 PRETREATMENT 1 (020706)
AIA-PACK FOLATE PRETREATMENT 1 (020707)

· Application of the substance / the preparation In Vitro Diagnostics.

· Manufacturer / Supplier:

TOSOH CORPORATION
3-8-2 Shiba, Minato-ku
Tokyo 105 -8623
JAPAN
TOSOH BIOSCIENCE, INC.
6000 Shoreline Ct.; Suite 101
South San Francisco, CA94080
USA

· Information department:

OA-RA: susan.koss@tosoh.com www.diagnostics.us.tosohbioscience.com

· Emergency information: Poison Control Center: + 1 800 222 1222

2 Composition/Data on components

- · Chemical characterization
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
57-50-1	sucrose, pure	25-50%	
	DDT (common name not adopted by ISO)	10-25%	
	Danger: 🥎 3.1.0/3; 🤡 3.9/1, 3.6/2		
	Warning: 🥎 4.1.A/1, 4.1.C/1		
		≤ 2.5%	
	Danger: 🥎 3.1.0/2		
	Warning: 🔖 4.1.A/1, 4.1.C/1		

3 Hazards identification

· Hazard description:





Toxic

Dangerous for the environment

· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

Toxic if swallowed.

Limited evidence of a carcinogenic effect.

Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0 Reactivity = 0

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· HMIS-ratings (scale 0 - 4)



· GHS label elements



- 3.1/3 Toxic in contact with skin.
- 3.1/4 Harmful if swallowed.



- 3.9/1 Causes damage to organs through prolonged or repeated exposure.
- 3.6/2 Suspected of causing cancer.



4.1/2 - Toxic to aquatic life with long lasting effects.

· Prevention:

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

· Response:

Remove/Take off immediately all contaminated clothing.

· Storage:

Store locked up.

· Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Protective equipment: No special measures required.

6 Accidental release measures

· Person-related safety precautions: Not required.

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· Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13.

7 Handling and storage

- · Handling:
- · Information for safe handling: Store in cool, dry place in tightly closed receptacles.
- · Information about protection against explosions and fires: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

57-50-1 sucrose, pure

PEL 15* 5** mg/m³

*total dust **respirable fraction

REL $10*5**mg/m^3$

*total dust **respirable fraction

TLV 10 mg/m³

50-29-3 DDT (common name not adopted by ISO)

PEL 1 mg/m³

Skin

REL 0.5 mg/m^3

 $(LOQ\ 0.1\ mg/m3)$

 $TLV \mid 1 \text{ mg/m}^3$

26628-22-8 sodium azide

REL Short-term value: C 0.3** mg/m³, C 0.1* ppm

*as HN3 vapor; **as NaN3; Skin

TLV Short-term value: C 0.29** mg/m³, C 0.11* ppm

*as HN3 vapor **as NaN3

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



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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

· 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: Not required.

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· General Information	
Form:	Spray dried powder
Color: Odor:	Whitish uncharacteristic
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	
· Flash point:	Not applicable.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined.
Solubility in / Miscibility with Water:	Soluble.
· Solvent content: Organic solvents:	0.0 %
Solids content:	100.0 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Materials to be avoided:
- · Dangerous reactions No dangerous reactions known.
- · Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
- $\cdot \textit{LD/LC50} \ \textit{values that are relevant for classification:}$

50-29-3 DDT	common name not	adonted by ISO)

Oral LD50 113 mg/kg (rat)
Dermal LD50 2510 mg/kg (rat)

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26628-22-8 sodium azide

Oral LD50 27 mg/kg (rat)
Dermal LD50 20 mg/kg (rabbit)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for

preparations:

Toxic

12 Ecological information

- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

- · Product:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· DOT regulations:



Hazard class:
 Identification number:
 Packing group:
 III

· Proper shipping name (technical name): PESTICIDE, SOLID, TOXIC, N.O.S. (SODIUM AZIDE, DDT

(common name not adopted by ISO))

• **Label** 6.1

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· Land transport ADR/RID (cross-border):



· ADR/RID class: 6.1 Toxic substances

Danger code (Kemler): 60
 UN-Number: 2588
 Packaging group: III
 Label: 6.1

· Special marking: Symbol (fish and tree)

• Description of goods: 2588 PESTICIDE, SOLID, TOXIC, N.O.S. (SODIUM AZIDE,

DDT (common name not adopted by ISO))

· Maritime transport IMDG:





· IMDG Class: 6.1
 · UN Number: 2588
 · Label 6.1
 · Packaging group: III
 · EMS Number: F-A,S-A
 · Marine pollutant: Yes

Symbol (fish and tree)

· Segregation groups Azides

• Propper shipping name: PESTICIDE, SOLID, TOXIC, N.O.S. (SODIUM AZIDE, DDT

(common name not adopted by ISO))

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 6.1
 · UN/ID Number: 2588
 · Label 6.1
 · Packaging group: III

• Proper shipping name: PESTICIDE, SOLID, TOXIC, N.O.S. (SODIUM AZIDE, DDT

(common name not adopted by ISO))

- · UN "Model Regulation": UN2588, PESTICIDE, SOLID, TOXIC, N.O.S., 6.1, III
- · Environmental hazards:

Product contains environmentally hazardous substances: DDT (common name not adopted by ISO)

15 Regulations

- · Sara
- · Section 355 (extremely hazardous substances):

26628-22-8 sodium azide

· Section 313 (Specific toxic chemical listings):

26628-22-8 sodium azide

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(Contd. of page 6) · TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 · Chemicals known to cause cancer: 50-29-3 DDT (common name not adopted by ISO) · Chemicals known to cause reproductive toxicity for females: 50-29-3 DDT (common name not adopted by ISO) · Chemicals known to cause reproductive toxicity for males: 50-29-3 DDT (common name not adopted by ISO) · Chemicals known to cause developmental toxicity: 50-29-3 DDT (common name not adopted by ISO) · Carcinogenic categories · EPA (Environmental Protection Agency) 50-29-3 DDT (common name not adopted by ISO) B2· IARC (International Agency for Research on Cancer) 50-29-3 DDT (common name not adopted by ISO) 2B· NTP (National Toxicology Program) 50-29-3 DDT (common name not adopted by ISO) R · TLV (Threshold Limit Value established by ACGIH) 57-50-1 sucrose, pure A450-29-3 DDT (common name not adopted by ISO) *A3* 26628-22-8 *sodium azide* A4· NIOSH-Ca (National Institute for Occupational Safety and Health) 50-29-3 DDT (common name not adopted by ISO)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:





Toxic

Dangerous for the environment

· Hazard-determining components of labelling:

DDT (common name not adopted by ISO) sodium azide

· Risk phrases:

Toxic if swallowed.

 $Limited\ evidence\ of\ a\ carcinogenic\ effect.$

Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

Keep locked up and out of the reach of children.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Wear suitable protective clothing and gloves.

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In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

 $DOT: \ US \ Department \ of \ Transportation$

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

USA