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· Product identifier	
• Trade name: ST AIA-PACK 25-OH Vi	
	T AIA-PACK 25-OH Vitamin D CUP
· Application of the substance / the pi	tance or mixture and uses advised against
· Details of the supplier of the safety of	
· Manufacturer /	Supplier:
TOSOH CORPORATION	TOSOH BIOSCIENCE
3-8-2 Shiba, Minato-ku Tokyo 105 -8623	6000 Shoreline Ct.; Sui South San Francisco, CA
JAPAN	
Tel. : + 81 3 5427 5181	Phone : + 1 614 317 1909 or (800) 248
Fax : + 81 3 5427 5220	Fax : + 1 877 898 9883 or (800) 685
 Information department: QA-RA: susan.koss@tosoh.com 	www.diagnostics.us.tosohbioscience.com
· Emergency telephone number: Poisor	n Control Center: + 1 800 222 1222
2 Hazards identification	
 Information concerning particular has The product does not have to be labelled due to 	67/548/EEC or Directive 1999/45/EC Not applicable.
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Dangerous components:

57-50-1 sucrose, pure

(Contd. on page 2) - USA

25-50%



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Reviewed on 09/17/2012

(Contd. of page 1) 145224-94-8 2-MORPHOLINOETHANESULFONIC ACID MONOHYDRATE Skin Irrit. 2, H315; H319; STOT SE 3, H335

2.5-10%

4 First aid measures

- Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents:

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

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.

Reference to other sections

- No dangerous substances are released.
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

- No special measures required.
- · 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 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.

(Contd. on page 3) USA



Printing date 09/17/2012

	(Contd. of page 2)
· Cor	trol parameters
	nponents with limit values that require monitoring at the workplace:
)-1 sucrose, pure
PEL	15* 5** mg/m ³ *total dust **respirable fraction
REL	10* 5** mg/m ³
TLV	*total dust **respirable fraction 10 mg/m ³
· Add	itional information: The lists that were valid during the creation were used as basis.
· Exp	osure controls
·Per	sonal protective equipment:
· Ger	eral protective and hygienic measures:
	usual precautionary measures for handling chemicals should be followed.
·Bre	athing equipment: Not required.
	tection of hands:
The	plove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical
	ction 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.

Physical and chemical proper	ties
· Information on basic physical and c	hemical properties
· General Information	
· Appearance:	
Form:	Spray dried powder
Color:	Light beige
· Odor:	Odorless
[·] Odour threshold:	Not determined.
· pH-value:	Not applicable.
[·] Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
[.] Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
Evaporation rate	Not applicable.

(Contd. on page 4) - USA



Printing date 09/17/2012

Reviewed on 09/17/2012

		(Contd. of page 3)
 Solubility in / Miscibility with Water: 	Soluble.	
· Segregation coefficient (n-octo	nol/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- 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 is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

(Contd. on page 5)

Material Safety Data Sheet

acc. to ISO/DIS 11014



Printing date 09/17/2012

Reviewed on 09/17/2012

(Contd. of page 4)

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

 \cdot Recommendation: Smaller quantities can be disposed of with household waste.

· Uncleaned packagings:

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

14 Transport information

· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
 [.] UN proper shipping name [.] DOT, ADR, ADN, IMDG, IATA 	Void
· Transport hazard class(es)	
[·] DOT, ADR, ADN, IMDG, IATA [·] Class	Void
 Packing group DOT, ADR, IMDG, IATA 	Void
 Environmental hazards: Marine pollutant: 	No
• Special precautions for user	Not applicable.
 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code 	of Not applicable.
· UN "Model Regulation":	

15 Regulatory information

 $^{\rm \cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\rm \cdot}$ Sara

None of the	355 (extremely hazardous substances): ingredients is listed.	
	13 (Specific toxic chemical listings):	
7646-85-7 z	•••	
•	oxic Substances Control Act):	
57-50-1 s	sucrose, pure	
2682-20-4 2	2-methyl-2H-isothiazol-3-one	
7646-85-7 z	zinc chloride	
Propositi	on 65	
Chemical	Is known to cause cancer:	
None of the	ingredients is listed.	
Chemical	Is known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemical	Is known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemical	Is known to cause developmental toxicity:	
None of the	ingredients is listed.	
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A4

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 09/17/2012

(Contd. of page 5)

· Carcinogenic categories

· EPA (Environmental Protection Agency)

7646-85-7 zinc chloride

· TLV (Threshold Limit Value established by ACGIH)

57-50-1 sucrose, pure

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

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.

The information contained herein is prepared based on the available information to Tosoh that is believed to be reliable: however the information is provided by Tosoh WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, AS TO ITS COMPLETENESS, COMPREHENSIVENESS AND ACCURACY.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

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)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

- ACGIH: American Conference of Governmental Industrial Hygienists
- NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

USA