

SAFETY DATA SHEET

ASM-1, MAT-130



Version 1

Print date: 3/8/2016

Section 1: Product and Company Identification

Product name : ASM-1
MAT-130

Product use description : Catalyst

Manufacturer or supplier details : **VICI Metronics**
26295 Twelve Trees Ln NW
Poulsbo, WA 98370

Phone : 1-360-697-9199

Fax : 1-360-697-6682

Emergency contact number : 1-360-340-7932

Section 2: Hazards Identification

Form : Pellets

Color : White

Odor : None

Classification of the substance or mixture : Serious eye damage, Category 1

GHS Label elements, including precautionary statements

Symbol(s) :



Signal word :

Danger

Hazard statements :

Causes serious eye damage

Precautionary statements :

Prevention:

Wear protective gloves / eye protection / face protection

Response:

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER and doctor/physician.

Carcinogenicity :

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

Section 3: Composition/Information on Ingredients

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Silicon ortho phosphate	12037-47-7	>99.00%
Silica (amorphous)	7631-86-9	<1.00%

Note : As made, there is no Phosphoric acid present. If material comes into contact with water, up to 65 wt% Phosphoric acid can be generated.

Section 4: First Aid Measures

Inhalation : Remove to fresh air. If symptoms persist, call a physician.

Skin contact : Wash off with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact ; Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, call a physician.

Ingestion : Do NOT induce vomiting. Call a physician immediately.

Notes to physician

Treatment : When the catalyst or catalyst dust contacts water, corrosive phosphoric acid will form.

Section 5: Firefighting Measures

Suitable extinguishing media : Not combustible.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting : The product itself does not burn.
The used product can retain material of a hazardous nature. Identify that material and inform the firefighters.

Special protective equipment for firefighters : Wear suitable protective clothing.
In the case of respirable dust and/or fumes, use self-contained breathing apparatus

Section 6: Accidental Release Measures

Personal precautions : For personal protection, see section 8.

Environmental precautions : No special environmental precautions required.

Methods for cleaning up : Sweep, shovel, or vacuum spilled product into appropriate containers. (Do not use a vacuum if material has contacted a hydrocarbon material.)
Pick up and arrange disposal without creating dust.
Never return spills to original containers for re-use.
Keep material dry; contact with water or moisture will release phosphoric acid.
The acidic runoff can be neutralized with lime.
Spilled product should be disposed of in accordance with all applicable governmental regulations.

Section 7: Handling and Storage

Handling	:	Handle and open container with care. Avoid dust formation. Avoid contact with skin and eyes. Provide an electrical ground connection during loading and transfer operations to avoid static discharge in an explosive atmosphere and to prevent persons handling the product from receiving static shocks..
Storage	:	Store in original container. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool area.

Section 8: Exposure Controls / Personal Protection

Protective measures	:	Handle in accordance with good industrial hygiene and safety practice.
Engineering measures	:	Ensure adequate ventilation, especially in confined areas.
Eye protection	:	Safety glasses Safety goggles
Hand protection	:	Protective gloves
Skin and body protection	:	Lightweight protective clothing
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter: NIOSH classification N-100. If oil/liquid aerosols are present, wear breathing apparatus with filter NIOSH classification P-100 (42 CFR 84).

Exposure guidelines

Contains no substances with occupational exposure limit values.

Section 9: Physical and Chemical Properties

Physical state	:	Pellets
Color	:	White
Odor	:	None
pH	:	Not applicable
Melting point/range	:	> 400°C
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Density	:	> 2.0 grams/cm ³
Specific gravity	:	>2
Water solubility	:	Soluble

Solubility in other solvents	:	Note: No data available
Decomposition temperature	:	Stable under normal conditions. Heating can release hazardous gases, Phosphorus oxides (e.g. Phosphorus pentoxide)
Bulk density	:	For further information, refer to the product technical data sheet.

Section 10: Stability and Reactivity

Possibility of hazardous reactions	:	Stable
Incompatible materials to avoid	:	Moisture or water contact, temperatures in excess of 750°F (400°C).
Hazardous decomposition products	:	No decomposition if stored normally. Phosphoric acid upon contact with water or moisture, POx at temperatures above 750°F (400°C).

Section 11: Toxicological Information

Acute oral toxicity	:	LD50: > 5,000 mg/kg Species: Rat
Acute inhalation toxicity	:	Note: No data available
Acute dermal toxicity	:	LD50: > 2,000 mg/kg Species: Rabbit
Skin irritation	:	Species: Rabbit Result: Mild skin irritation Test substance: Dry product
Eye irritation	:	Species: Rabbit Classification: Severe eye irritation Test substance: Dry product
Further information	:	Note: Avoid repeated exposure.

Section 12: Ecological Information

Ecotoxicity effects

Toxicity to fish	:	Note: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Note: No data available
Toxicity to algae	:	Note: No data available

Elimination information (persistence and degradability)

Bioaccumulation	:	Note: No data available
Mobility	:	Note: No data available
Biodegradability	:	Note: No data available
Additional ecotoxicological information	:	No information on ecology is available.

Section 13: Disposal Considerations

Disposal methods	:	Waster material may exhibit the U.S. EPA's RCRA hazardous waster characteristic of Corrosivity (D002) in the presence of water if a representative sample exhibits a pH of 2 or less. The used product can contain material of a hazardous nature. Identify that material and dispose accordingly.
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Section 14: Transport Information

DOT	UN/ID No.	:	UN 3260
	Proper shipping name	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Silicon orthophosphate)
	Class	:	8
	Packing group	:	III
	Hazard labels	:	8
IATA	UN/ID No.	:	UN 3260
	Description of the goods	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Silicon orthophosphate)
	Class	:	8
	Packing group	:	III
	Hazard labels	:	8
	Packing instruction (cargo aircraft)	:	864
IMDG	Packing instruction (passenger aircraft)	:	860
	Packing instruction (passenger aircraft)	:	Y845
	UN/ID No.	:	UN 3260
	Description of the goods	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Silicon orthophosphate)
	Class	:	8
	Packing group	:	III
	Hazard labels	:	8
	EmS Number	:	F-A, S-B
	Marine pollutant	:	no

Section 15: Regulatory Information**Inventories**

U.S. Toxic Substances Control Act	:	On TSCA inventory.
Australia. Industrial Chemical (Notification and Assessment) Act	:	Not in compliance with the inventory. Silicon orthophosphate 12037-47-7
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL.
Japan. Kashin-Hou Law List	:	Not in compliance with the inventory. Silicon orthophosphate 12037-47-7
Korea. Toxic Chemical Control Law (TCCL) List	:	On the inventory, or in compliance with the inventory.
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	Not in compliance with the inventory. Silicon orthophosphate 12037-47-7
China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance with the inventory.
New Zealand. Inventory of Chemicals (NZioC), as published by ERMA New Zealand	:	Not in compliance with the inventory. Silicon orthophosphate 12037-47-7

National regulatory information

SARA 302 components	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 components	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 hazards	:	Acute health hazard Chronic health hazard
California Prop. 65	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Massachusetts RTK	:	Silicon orthophosphate 12037-47-7
New Jersey RTK	:	Silicon orthophosphate 12037-47-7
Pennsylvania RTK	:	Silicon orthophosphate 12037-47-7
WHMIS classification	:	E: Corrosive material

Section 16: Other Information

	HMIS III	NFPA
Health hazard	:: 2	2
Flammability	: 0	0
Physical hazard	: 1	
Instability	:	1

Hazard rating and rating systems (e.g. HMIS[®] III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version: Does not apply

Previous issue date: Does not apply

Prepared by VICI Metronics