

Version 03 Date of revision: 27 October 2023

SECTION 1. IDENTIFICATION

Product name : ASM-1

MAT-130

Product use description : Catalyst

Manufacturer or supplier's details

Company name of supplier : Perma Pure LLC

Address : 1001 New Hampshire Avenue

Lakewood, NJ 08701

United States of America (USA)

Telephone : 1-732-244-0100, 1-800-337-3762

EMERGENCY TELEPHONE

(InfoTrac)

: INFOTRAC Account Number 115419

North America: 1-800-535-5053 International: +1-352-323-3500

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Health Hazard, Category 1, Eye Effects

GHS label elements

Symbol(s)

Signal Word : Danger

Statement(s) : Causes Serious Eye Damage

Precautionary Statement(s) : **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

Substance name CAS No. Concentration

 Silicon ortho phosphate
 12037-47-7
 >99.00%

 Silica (amorphous)
 7631-86-9
 <1.00%</td>

Version 03 Date of revision: 27 October 2023

Special Note : As made, there is no Phosphoric acid present. If the material comes into

contact with water, up to 65 wt% Phosphoric acid can be generated.

SECTION 4. FIRST AID MEASURES

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms persist.

In case of skin contact : Wash with plenty of water and soap.

Get medical attention if skin irritation persists.

In case of eye contact : Immediately flush eyes with plenty of water for at least 15 minutes.

Get medical attention if eye irritation persists.

If swallowed : If swallowed, DO NOT induce vomiting.

Call a physician immediately.

Notes to physician : When the catalyst or catalyst dust contacts water, corrosive

phosphoric acid will form.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Not combustible

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during fire fighting : 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 fire-fighters

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, protective equipment and emergency procedures : For personal protection, see section 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up

: Sweep, shovel, or vacuum spilled product into suitable container for disposal (Do not use vacuum). Pick up and arrange disposal without creating dust. Never

Pick up and arrange disposal without creating dust. Never return spills to original containers for reuse. Keep material dry as contact with water 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.



Version 03 Date of revision: 27 October 2023

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.

Conditions for safe storage : Store in original container.

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Store in cool dry area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Measures : Handle in accordance with good industrial hygiene.

and safety practices.

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 or if

oil/liquid aerosols are present P-100 (42 CFR 84).

Exposure Guidelines

Contains no substances with occupational exposure limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/ Appearance : pellets

Color : White

Odor : none

Odor Threshold : No data available

pH : Not applicable

Melting point/freezing point : >400 °C

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not applicable

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

SDS-195

SAFETY DATA SHEET ASM-1, MAT-130



Version 03 Date of revision: 27 October 2023

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Water Solubility : Soluble

Solubility in other solvents : No data available

Partition coefficient n-octanol/water

: No data available

Ignition temperature : Not applicable

Decomposition temperature : Stable under normal conditions. Heating can release hazardous

gases, Phosophorus oxides (eg Phosphorus pentoxide)

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Incompatible materials : Moisture or water contact, temperatures in excess of 750°F

(400°C).

Possible hazardous reactions : Stable

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 : No data available

Acute dermal toxicity : LD50: >2,000 mg/kg

Species: Rabbit

Skin Irritation : Species: Rabbit

Classification: Mild skin irritation Test substance: Dry product

Eye Irritation : Species: Rabbit

Classification: Severe eye irritation Test substance: Dry product

Sensitisation : No data available

Repeated dose toxicity : No data available

Genotoxicity in vitro : No data available

Perma Pure Breathe Easier. Be Healthier.

SAFETY DATA SHEET ASM-1, MAT-130

Version 03 Date of revision: 27 October 2023

Carcinogenicity : Species: Not specified

Not classified as a human carcinogen. Substance not expected to

be a carcinogen based on available data.

Reproductive toxicity : Species: not specified

No available data

Further information : Avoid repeated exposure

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available **Mobility in soil** No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Disposal Methods : Waste material may exhibit the US EPA's RCRA hazardous waste

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.

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 goods : CORROSIVE SOLID, ACIDIC, INORGANIC

N.O.S.

(Silicon orthophosphate)

Class 8
Packing Group III
Hazard Labels 8
Packing Instruction : 860

(passenger aircraft)

Packing Instruction : Y845

(passenger aircraft)

Date of revision: 27 October 2023

SAFETY DATA SHEET **ASM-1. MAT-130**

IMDG UN/ID No. UN 3260

> Description of goods CORROSIVE SOLID, ACIDIC, INORGANIC

Version 03

N.O.S.

(SILICON ORTHOPHOSPHATE)

Class Packing Group Ш Hazard Labels 8 **EmS Number** F-A, S-B

Marine pollutant no

IMDG Code segregation group 1 - ACIDS

SECTION 15. REGULATORY INFORMATION

Inventories

US Toxic Substances

Control Act

On TSCA Inventory

Australia. Industrial

Chemical (Notification and

Assessment) Act

On the inventory, or in compliance with the inventory

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 determined

Korea. Existing Chemicals

Inventory (KECI)

On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous And Nuclear Waste Control

Act

not determined

China. Inventory of Existing

Chemical Substances

(IECSC)

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZLoC), as

published by ERMA New

Zealand

not determined

US State Regulations

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 (Di Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard

Perma Pure
Breathe Easier. Be Healthier.

Version 03 Date of revision: 27 October 2023

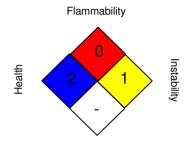
California Prop. 65

: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

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

NFPA 704:



Special hazard.

HMIS III:

HEALTH	/ 2
FLAMMABILITY	0
PHYSICAL HAZARD	1

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable. This information should not constitute a guarantee for any specific product properties.