

# **SAFETY DATA SHEET**

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: SAPO-34

Catalog Number: NovaMS-SAPO-34

Supplier: Novarials Corporation

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# 2. HAZARDS IDENTIFICATION

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

# GHS Label elements, including precautionary statements



Pictogram

Signal word Warning

### Hazard statement(s)

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

# Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

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

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

# **NFPA Ratings**

Health Hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

# **HMIS Ratings**

Health Hazard: 2
Chronic Health Hazard: 0
Flammability: 0
Physical Hazard: 0

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Silica, SiO2, molecular sieve SAPO-34, Zeolite SAPO-34

Formula: (SiO2)x(Al2O3)y(P2O5)z

Component		Concentration
SiO2		
CAS-No.	7631-86-9	~10 wt%
Al2O3		
CAS-No.	1344-28-1	~42 wt%
Na2O		
CAS-No.	1313-59-3	≤ 0.1 wt%

#### 4. FIRST AID MEASURES

# **General advice**

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

# If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions – Unknown.

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Do not let product enter drains.

# Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# **Eye/Face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Body protection**

Impervious clothing recommended. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Control of environmental exposure

Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **APPEARANCE**

Form powder Color white

Safety data

no data available рΗ Melting point/freezing point no data available Boiling point no data available Flash point no data available Ignition temperature no data available Auto ignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Vapour pressure no data available Density no data available Water solubility no data available Partition coefficient: nno data available octanol/water Relative vapour density no data available Odour no data available Odour Threshold no data available Evaporation rate no data available

# 10. STABILITY AND REACTIVITY

# Reactivity

no data available

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

no data available

# Conditions to avoid

Avoid moisture.

#### Materials to avoid

Strong acids, Strong bases, Hydrogen fluoride, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Strong acids, Strong oxidizing agents

## **Hazardous decomposition products**

Other decomposition products -no data available

# 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

Oral LD50

LD50 Oral - Rat - 10,000 mg/kg

**Inhalation LC50** 

No data available.

**Dermal LD50** 

LD50 Dermal - Rabbit - > 2,000 mg/kg

Other information on acute toxicity

No data available.

### Skin corrosion/irritation

Skin - Human - No skin irritation.

# Serious eye damage/eye irritation

Eyes - Rabbit - No eye irritation.

# Respiratory or skin sensitization

Prolonged or repeated contact may dry skin and cause irritation

# Germ cell mutagenicity

Human - Lymphocyte - Cytogenetic analysis

Mouse - Cytogenetic analysis

# Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by IARC.

NTP: 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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

### Reproductive toxicity

no data available

# Specific target organ toxicity -single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

# Specific target organ toxicity -repeated exposure (Globally Harmonized System)

no data available

### **Aspiration hazard**

no data available

# **Additional Information**

RTECS: ZG6800000.

Cough, Difficulty in breathing, Gastrointestinal disturbance, prolonged or repeated exposure can cause: Damage to the lungs. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

no data available

# Persistence and degradability

no data available

### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### Other adverse effects

no data available

### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

# DOT (US), IMDG, IATA

Not a dangerous goods.

#### 15. REGULATORY INFORMATION

### **SARA 302 Components**

not required

# **SARA 313 Components**

not required

#### SARA 311/312 Hazards

Acute Health Hazard.

# **Massachusetts Right To Know Components**

not required

### Pennsylvania Right To Know Components

Zeolites crystalline alumiosilicates, composed of silica (SiO2) and alumina (Al2O3), in various proportions plus metallic oxides.

### **New Jersey Right To Know Components**

Zeolites crystalline alumiosilicates, composed of silica (SiO2) and alumina (Al2O3), in various proportions plus metallic oxides.

# California Prop. 65 Components

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

### 16. DISCLAIMER

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