



# **XB-17**

## **XB-17 Safety Data Sheet**

Revision date : 2022

### **Section 1: Product and Company Information**

<b>Product Name</b>	<b>Product Type</b>	<b>Company ID</b>	<b>Emergency Phone Number</b>	<b>Address</b>	<b>Common Use of Product</b>
XB-17	Zeolite/Activated Carbon	Hydrosil International Ltd.	847-844-0680	125 Prairie Lake Rd. East Dundee, IL 60018	Filtration

### **Section 2: Hazard(s) Identification**

#### 2.1 – Classification of the substance or mixture (GHS-US)

<b>Pictogram</b>	<b>Signal Word</b>	<b>Hazard Statement</b>
	Warning	Eye Irritation 2B H320; Acute Oral Tox 4, H302; Respiratory Irritation H335
	Oxidizer	The material is not combustible. This material contains an oxidizing substance (potassium permanganate).The material is considered to have no oxidizing properties that should be classified as “not oxidizing” and “Not a Division 5.1” following UN Handbook. Ox. Sol. 2, H272

#### 2.2 – Precautionary statements (GHS-US) :

- P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking
- P220 – Keep/Store away from clothing/combustible materials
- P221 – Take any precaution to avoid mixing with combustibles
- P261 – Avoid breathing dust/fume/gas/mist/vapours/spray
- P271 – Use only outdoors or in a well-ventilated area
- P280 – Wear protective gloves/protective clothing/eye protection/face protection
- P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 – Call a POISON CENTER/doctor if you feel unwell

P370+P378 – In case of fire: Use for extinction  
 P403+P233 – Store in a well-ventilated place. Keep container tightly closed  
 P405 – Store locked up  
 P501 – Dispose of contents/container

### 2.3 – Other Hazards

No additional information available

### 2.4 – Unknown acute toxicity (GHS US)

No data available

## Section 3: Composition/Information on Ingredients

Name	Product Identifier	Percent By Weight (%)	GHS-US Classification
Carbon	(CAS No.) 7440-44-0	50.0	Not classified
Zeolite	(CAS No.) 1318-02-1	39.75-40.75	STOT SE 3, H335
Water	(CAS No.) 7732-18-5	6.25-7.25	Not Classified
Potassium Permanganate	(CAS No.) 7722-64-7	3.0-4.0	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302

The mixture is not combustible. This material contains an oxidizing substance (potassium permanganate). The material is considered to have no oxidizing properties that should be classified as “not oxidizing” and “Not a Division 5.1” following United Nations (UN) Handbook. Testing 34.4.1 confirms that this material is not a Division 5.1 material.

## Section 4: First-Aid Measures

### 4.1 – Description of first aid measures

<b>Inhalation First Aid</b>	Remove person to fresh air. If not breathing, administer CPR or artificial respiration. Get immediate medical attention.
<b>Skin Contact First Aid</b>	If skin reddening or irritation develops, seek medical attention.
<b>Eye Contact First Aid</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
<b>Ingestion First Aid</b>	If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting unless directed to do so by medical personnel.

### 4.2 – Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes eye irritation.  
Symptoms/injuries after ingestion : May be harmful if swallowed.

#### 4.3 – Indication of any immediate medical attention and special treatment needed

No additional information available

### **Section 5: Fire-Fighting Measures**

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#### 5.1 – Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

#### 5.2 – Special hazards arising from the substance or mixture

The mixture is not combustible. This material contains an oxidizing substance (potassium permanganate). The material is considered to have no oxidizing properties that should be classified as “not oxidizing” and “Not a Division 5.1” following United Nations (UN) Handbook. Testing 34.4.1 confirms that this material is not a Division 5.1 material.

#### 5.3 – Advice for firefighters

Protection during firefighting : Firefighters should wear full protective gear (chemical protective clothing and breathing apparatus).

### **Section 6: Accidental Release Measures**

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#### 6.1 – Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with the skin and the eyes.  
For non-emergency personnel : No additional information available  
For emergency responders : No additional information available

#### 6.2 – Environmental precautions

Do not allow material to enter surface water or drains. If the material contacts water, the potassium permanganate may leach out and turn the water a pink/purple color.

#### 6.3 – Methods and material for containment and cleaning up

For containment : If possible, stop flow of product.  
Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal.

#### 6.4 – Reference to other sections

No additional information available

### **Section 7: Handling and Storage**

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#### 7.1 – Precautions for safe handling

Avoid generation of dust.

#### 7.2 – Conditions for safe storage, including any incompatibilities

Storage conditions : Protect containers from physical damage. Keep container tightly closed and store in dry, cool, well-ventilated area. Protect material from water and contaminated gases.

#### 7.3 – Specific end use(s)

No additional information available

## **Section 8: Exposure Controls/Personal Protection**

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### 8.1 – Control parameters

No additional information available

### 8.2 – Exposure controls/Person Protection

Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection : Use impervious gloves to minimize skin contact.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable working clothes.

Respiratory protection : If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

## **Section 9: Physical and Chemical Properties**

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### 9.1 – Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granules

Color : Purple and Black

Odor : No data available

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Self ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : 44-46 lb/ft<sup>3</sup>

Solubility : No data available

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

## **Section 10: Stability and Reactivity**

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### 10.1 – Reactivity

Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, etc. may result in fire.

### 10.2 – Chemical stability

Stable under normal conditions.

### 10.3 – Possibility of hazardous reactions

May occur with contact of acids or strong oxidizing agents.

#### 10.4 – Conditions to avoid

Liquid water. Heat sources, open flames, or other ignition sources.

#### 10.5 – Incompatible materials

Strong oxidizers or acids.

#### 10.6 – Hazardous decomposition products

None.

### Section 11: Toxicological Information

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#### 11.1 – Information on toxicological effects

Acute toxicity : Not classified

<b>Zeolite (CAS No. 1318-02-1)</b>	
LD50 Oral Rat	5000 mg/kg
LD50 Dermal Rabbit	>2000 mg/kg
LC50 Inhalation Rat	2.4 mg/l (Exposure Time: 1Hr
ATE (Oral)	5000 mg/kg
<b>Carbon (CAS No. 7440-44-0)</b>	
LD50 Oral Rat	> 1000 mg/kg

<b>Potassium Permanganate(CAS No. 7722-64-7)</b>	
LD50 Oral Rat	750 mg/kg

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Zeolite (CAS No. 1318-02-1) IARC Group: 3

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

### Section 12: Ecological Information

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#### 12.1 – Toxicity

<b>Zeolite (CAS No. 1318-02-1)</b>
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LC50 Fishes 1	1800 mg/l (Exposure time: 96 h – Species: Brachydanio rerio [semi-static])
EC50 Daphnia 1	1000 – 1800 mg/l (Exposure time: 48 h – Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	18 mg/l (Exposure time: 96 h – Species: Desmodesmus subspicatus)
LC50 Fish 2	3200 – 5600 mg/l (Exposure time: 96 h – Species: Oryzias latipes [semi-static])
<b>Potassium Permanganate (CAS No. 7722-64-7)</b>	
LC50 Fishes 1	3.3 – 3.93 mg/l (Exposure time: 96 h – Species: Carassius auratus [static])
LC50 Fish 2	2.97 – 3.11 mg/l (Exposure time: 96 h – Species: Cyprinus carpio)

#### 12.2 – Persistence and degradability

No additional information available

#### 12.3 – Bioaccumulative potential

Potassium Hydroxide (CAS No. 1310-58-3) Log Pow: 0.65

#### 12.4 – Mobility in soil

No additional information available

#### 12.5 – Other adverse effects

No additional information available

### **Section 13: Disposal Considerations**

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#### 13.1 – Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

### **Section 14: Transport Information**

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In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1 – UN number

Not applicable

#### 14.2 – UN proper shipping name

Not applicable

### **Section 15: Regulatory Information**

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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### 15.1 – US Federal regulations

**Potassium Permanganate (CAS No. 7722-64-7)**

Reportable Quantity, Section 304 of EPA's List of Lists: 100 pounds

15.2 – US State regulations

Review specific state regulations.

**Potassium Permanganate (CAS No. 7722-64-7)**

U.S. – Massachusetts – Right To Know (RTK) List  
U.S. – New Jersey – RTK Hazardous Substance List  
U.S. – Pennsylvania – RTK List

**Section 16: Other Information**

Full text of H-phrases:

Acute Tox. 3 (Oral)	0.65
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
Ox. Sol 2	Oxidising Solids, Category 2

NFPA health hazard : 1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 – Must be preheated before ignition can occur.

NFPA reactivity : 0 – Normally stable, even under fire exposure conditions, and are not reactive with water

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