



## SAFETY DATA SHEET

### Section 1 - Identity

Identity (As Used on Label and List): Spectrum HS-600

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### Section 2 - Material Identification and Information

#### 2.1 – Classification of the substance or mixture

GHS-US classification  
Ox. Sol. 2 H272  
STOT SE 3 H335

#### 2.2 - Label Elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :

H272 - May intensify fire; oxidizer  
H335 - May cause respiratory irritation

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**

### 3.1 - Substances

Not applicable

### 3.2 - Mixture

Name	Product Identifier	%	GHS-US Classification
Zeolite	(CAS No.) 1318-02-1	79.5 - 81.5	STOT SE 3, H335
Water	(CAS No.) 7732-18-5	12.5 - 14.5	Not classified
Potassium permanganate	(CAS No.) 7722-64-7	6 - 8	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302

## **SECTION 4: First aid measures**

### 4.1 - Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air. If not breathing, administer CPR or artificial respiration. Get immediate medical attention.

First-aid measures after skin contact : If skin reddening or irritation develops, seek medical attention.

First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

First-aid measures after ingestion : 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. May stain body tissue.

Symptoms/injuries after eye contact : Causes serious 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: Firefighting measures**

### 5.1 - Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire

Unsuitable extinguishing media : None

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

Fire hazard : May intensify fire; oxidizer

Explosion hazard : None known

## 5.3 - Advice for firefighters

Protection during firefighting : Firefighters should wear full protective gear

## **SECTION 6: Accidental release measures**

### 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

None

### 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**

### 7.1 - Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes

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

Storage conditions : Protect containers from physical damage. Store in dry, cool, well-ventilated area

### 7.3 - No additional information available

## **SECTION 8: Exposure controls/personal protection**

### 8.1 - Control parameters

No additional information available

### 8.2 - Exposure controls

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

Hand protection : Use impervious gloves to minimize skin contact

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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**

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

Physical state : Solid  
Appearance : Granules  
Colour : Purple  
Odour : No data available  
Odour 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  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : 59-61 lb/ft3  
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

#### 9.1 - Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1 - Reactivity

None known

#### 10.2 - Chemical stability

Stable under normal conditions

#### 10.3 - Possibility of hazardous reactions

Will not occur

#### 10.4 - Conditions to avoid

None

#### 10.5 - Incompatible materials

None

#### 10.6 - Hazardous decomposition products

None

### **SECTION 11: Toxicological information**

#### 11.1 - Information on toxicological effects

Acute toxicity : Not classified

Zeolite (1318-02-1)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2.4 mg/l (Exposure time: 1 h)
ATE (oral)	5000 mg/kg

Potassium permanganate (7722-64-7)	
LD50 oral rat	750 mg/kg

Skin corrosion/irritation : Causes skin irritation

Serious eye damage/irritation : Causes serious eye irritation

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Zeolite (1318-02-1)	
IARC group	3

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## **SECTION 12: Ecological information**

### **12.1 - Toxicity**

Zeolite (1318-02-1)	
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])

Potassium permanganate (7722-64-7)	
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 (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**

### 13.1 - Waste treatment methods

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

## **SECTION 14: Transport information**

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**

### 15.1 - US Federal regulations

Potassium permanganate (7722-64-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2 - US State regulations

Potassium permanganate (7722-64-7)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) 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

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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