

MATERIAL SAFETY DATA SHEET

RSE INCORPORATED
51529 BIRCH STREET
NEW BALTIMORE, MI 48047
PHONE: (586) 725-0192 FAX: (586) 725-2225

SECTION I - PRODUCT NAME
Activated Carbon Type: RSE A/C - 60

SECTION II - HAZARDOUS INGREDIENTS

<u>NAME</u>	<u>CAS NUMBER</u>	<u>% BY WEIGHT</u>
1. Carbon Activated Carbon (Non-Regulated)	7440-44-0	100

(ACGIH, OSHA and other TLV are not applicable for activated carbon.)

Caution: Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and federal regulations.

SECTION III - PHYSICAL DATA

Boiling Point (°F) : N/A Specific Gravity (water = 1) : 1.9-2.2
Vapor Pressure : N/A Packing Density (g/cc) : 0.4-0.8
Solubility In Water : N/A pH : N/A
Appearance & Odor : Black granular or powder odorless

SECTION IV - FIRE & EXPLOSION HAZARD DATA

Flash Point : N/A LEL: N/A Ignition Temperature (°C) : 350
Flammable Limits : N/A UEL: N/A

Extinguishing Media: Flood with plenty of water or inert gas, such as N₂ & CO₂

Special Fire Fighting Procedure: None

SECTION V - REACTIVITY

Stability : Stable
Hazardous Polymerization : Will not occur
Hazardous Decomposition : CO may be generated in the event of fire
Condition To Avoid : Contact with strong oxidizers, such as ozone, liquid oxygen, chlorine, permanganate and keytone may cause a bed fire.
Incompatibility : Avoid contact with high concentration of keytone in air or liquid. (Contact RSE for further information.)

SECTION VI – HEALTH HAZARD DATA

Carcinogenicity : N/A Skin : N/A Ingestion : N/A
Acute or Chronic : N/A NTP : N/A IARC Monograph : N/A
Inhalation : Dust may be inhaled OSHA : N/A

Signs and Symptoms of Exposure : Slight irritation of eyes and nose may result from contact with carbon fines

Medical Conditions Generally Aggravated By Exposure : N/A

SECTION VII - EMERGENCY & FIRST AID PROCEDURE

Skin : N/A Ingestion : N/A Inhalation : N/A

Eye : Flush with plenty of water at least for 15 minutes

Follow-up with physician exam if necessary.

SECTION VIII - SAFE HANDLING & STORAGE

Protective Gloves : Rubber Gloves
Protective Clothing : Not Required
Eye Protection : Safety Glasses
Respirator Protection : A NIOSH approved particulate filter
Ventilation : Local & Mechanical exhaust recommended
Storage & Handling : Avoid generation of dust and fines during handling

SECTION IX - SPILL OR LEAK PROCEDURE

Notify EPA If Product Spills : Report in accordance with local, state and federal regulations

Cleaning Procedure : Sweep up unused carbon and discard in refuse container or repackage for further use.

Date: 09/26/2007

Prepared By: Diana Verbeke

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Hydrosl Spectrum HS-600

(Identify Trade Name As Used On Label)

Hydrosl International Limited
Manufacturer
1180 St. Charles Street
Address
Elgin, IL 60120
1-800-PURPLE 1-800-787-7531
Phone Number (For Information) 1-847-741-1600
1-847-741-1600
Emergency Phone Number Telex

MSDS Number*
CAS Number* February 28, 2001
Date Prepared William J. Waldschmidt
Prepared By*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

	% *	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
potassium permanganate (KMnO ₄) CAS # 7722-64-7	6-8%	5 mg/m ³	5 mg/m ³	None
Non-Hazardous Ingredients				
molecular sieve/moisture	92-94%			
TOTAL	100			

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point N/A
Vapor Pressure (mm Hg and Temperature) N/A
Vapor Density (Air = 1) N/A
Solubility in Water KMnO₄ - yes, molecular sieve - no
Specific Gravity (H₂O = 1) Density 58-62#/ft³
Melting Point N/A
Evaporation Rate = 1) N/A
Water Reactive N/A

Appearance and Odor purple granules, odorless

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used Noncombustible
Auto-Ignition Temperature N/A
Extinguisher Media N/A
Special Fire Fighting Procedures None

Flammability Limits in Air % by Volume N/A
LEL N/A
UEL N/A

Unusual Fire and Explosion Hazards None

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY Stable Unstable Conditions To Avoid Protect containers against puncture and physical damage, keep in a dry area, avoid exposure to water

Incompatibility (Materials to Avoid) None

Hazardous Decomposition Products None

HAZARDOUS POLYMERIZATION Conditions To Avoid None

May Occur Will Not Occur

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY Inhalation Ingestion Carcinogen Listed In NTP OSHA Skin Absorption Not Hazardous IARC Monograph Not Listed

HEALTH HAZARDS Acute May be irritating to body tissue upon contact Chronic None

Signs and Symptoms of Exposure May stain body tissue

Medical Conditions Generally Aggravated by Exposure Open wounds, burns and mucous membranes

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary.

Eye Contact Immediately flush with large amounts of water for 15 minutes

Skin Contact Immediately flush with soap and water

Inhalation Leave contaminated area

Ingestion Drink several glasses of water or milk. Seek medical attention

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type) Treat as low level nuisance dust, use NIOSH/MSA # TC-21C-132

Protective Gloves Rubber or plastic gloves Eye Protection Safety glasses

VENTILATION TO BE USED Local Exhaust Mechanical (general) Special

Other Protective Clothing and Equipment Other (specify)

Hygienic Work Practices Regular work clothing Wash hands before eating. Wash contaminated clothing.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken if Material is Spilled Or Released Sweep up granules and dispose of in accordance with local, state and federal regulations.

Waste Disposal Methods Reduce potassium permanganate with hypo (10% sodium thiosulfate) solution and deposit in permitted landfill.

Precautions to be Taken in Handling and Storage Protect containers against physical damage. Store in a cool dry area in closed containers.

Other Precautions and/or Special Hazards Avoid exposure to water and contaminated air, otherwise

the media is rendered useless

NFPA Health Flammability Reactivity Special HMIS Flaming Health Flammability Reactivity Personal Protection

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IDENTITY: (As used on Label and List) HYDROSIL SPECTRUM HS-100	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Manufacturers Name: HYDROSIL INTERNATIONAL, LTD.	Phone Number for Information: 800-787-7531 or 800-PURPLE1
Address: (Number, Street, City, State & Zip Code) 1180 ST. CHARLES STREET	Emergency Phone Number: 847-741-1600
ELGIN, IL 60120	Telex: 847-741-1616
Date Prepared: 12/03/2007	Name of Preparer: DIANA VERBEKE

SECTION I - MATERIAL IDENTIFICATION AND INFORMATION

Components - Chemical Name & Common Names (Hazardous components 1% or greater; Carcinogens 0.1% or greater)	%	OSHA PEL	ACGIG TLV	Other Limits Recommended
Non-Hazardous Ingredients: ZEOLITE / WATER	100%			
TOTAL:	100			

SECTION II - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: N/A	Density: 49-51 #/FT3
Vapour Pressure (mm Hg.and Temperature): N/A	Melting Point: N/A
Vapour Density (Air = 1): N/A	Evaporation Rate: N/A
Solubility in water: NONE	Water Reactive: NONE
Appearance and Odour: WHITE GRANULES ODORLESS	

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point & Method Used: Noncombustible	Auto-ignition Temperature: N/A	Flammability Limits in Air % by Volume: N/A	LEL N/A	UEL N/A
Extinguishing Media: N/A				
Special Fire Fighting Procedures: NONE				
Unusual Fire & Explosion Hazards: NONE				

SECTION IV - REACTIVITY HAZARD DATA

Stability: STABLE

Conditions To Avoid: PROTECT CONTAINERS AGAINST PUNCTURE AND PHYSICAL DAMAGE, KEEP IN A DRY AREA, AVOID EXPOSURE TO WATER

Incompatibility (Materials to avoid): NONE

Hazardous Decomposition or Products: NONE

Hazardous Polymerisation: WILL NOT OCCUR

Conditions to avoid: NONE

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: NOT HAZARDOUS

CARCINOGEN LISTED IN: NOT LISTED

Health Hazards: (Acute and Chronic)
ACUTE: NONE

CHRONIC: NONE

Signs & Symptoms of Exposure: MAY STAIN BODY TISSUE

Medical Conditions Generally Aggravated by Exposure: NONE

EMERGENCY AND FIRST AID PROCEDURES: SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT IF NECESSARY.

EYES - NONE

INGESTION - NONE

INHALATION - NONE

SKIN - NONE

SECTION VI - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection: (Specify Type) TREAT AS LOW LEVEL NUISANCE DUST, USE NIOSHA/MSA #TC-21C-132

Protective Gloves: NONE

Eye Protection: SAFETY GLASSES

Ventilation To Be Used: MECHANICAL (GENERAL)

Other Protective Clothing and Equipment: REGULAR WORK CLOTHING

Hygienic Work Practices: NONE

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken In Case Material Is Released or Spilled: SWEEP UP GRANULES AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

Waste Disposal Method: NONE

Precautions to be taken in handling and storage: PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE.

Other Precautions and/or Special Hazards:
AVOID EXPOSURE TO WATER AND CONTAMINATED AIR, OTHERWISE THE MEDIA IS RENDERED USELESS