# SAFETY DATA SHEET



## 1. Identification

Product identifier PlumeStop® Liquid Activated Carbon™

Other means of identification None.

**Recommended use** Soil and Groundwater Remediation.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Company name REGENESIS

Address 1011 Calle Sombra

San Clemente, CA 92673 USA

General information 949-366-8000

E-mail CustomerService@regenesis.com

Emergency phone number For Dangerous Goods Incidents ONLY (spill, leak, fire, exposure or accident), call

CHEMTREC 24/7 at:

**USA, Canada** (+)1-800-424-9300 **International** +1 703-741-5970

### 2. Hazard identification

Physical hazards Not classified.

Health hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

Precautionary statement

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental information None.

Other hazards None known.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	60 - 80
Colloidal activated carbon ≤2.5 µm		7440-44-0	10 - 30
Proprietary additives			1 - 5

**Composition comments** All concentrations are in percent by weight unless otherwise indicated.

4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

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Most important symptoms/effects, acute and

delayed

Treat symptomatically.

Indication of immediate medical attention and special treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Use extinguishing agent suitable for type of surrounding fire.

Direct contact with eyes may cause temporary irritation.

media

**General information** 

None known.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. Combustion products may include: carbon monoxide, carbon dioxide, sodium oxides, metal oxides.

Special protective equipment and precautions for firefighters Use protective equipment appropriate for surrounding materials.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Use

water spray to keep fire-exposed containers cool.

General fire hazards

This material will not burn until the water has evaporated. Residue can burn. When dry may form

combustible dust concentrations in air.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Avoid contact with spilled material. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash thoroughly after handling. Wear appropriate personal protective equipment (See Section 8).

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Protect from freezing.

## 8. Exposure controls/personal protection

## Occupational exposure limits

## US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Colloidal activated carbon ≤2.5 µm (CAS 7440-44-0)	TWA	2 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Type	Value	Form
Colloidal activated carbon	TWA	2 mg/m3	Respirable.

PlumeStop® SDS Canada Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97. as amended)

Components	Туре	Value	Form
Colloidal activated carbon ≤2.5 µm (CAS 7440-44-0)	TWA	2 mg/m3	Respirable.

Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Type	Value	Form
Colloidal activated carbon ≤2.5 µm (CAS 7440-44-0)	TWA	2 mg/m3	Respirable.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Colloidal activated carbon	TWA	2 mg/m3	Respirable fraction.

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)ComponentsTypeValueFormColloidal activated carbon<br/>≤2.5 μm (CAS 7440-44-0)TWA2 mg/m3Respirable dust.

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)<br/>ComponentsTypeValueFormColloidal activated carbon<br/>≤2.5 μm (CAS 7440-44-0)15 minute4 mg/m3Respirable fraction.8 hour2 mg/m3Respirable fraction.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear approved chemical safety goggles.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier. Rubber, neoprene or PVC gloves are recommended.

Other Avoid contact with the skin. Wear suitable protective clothing.

Respiratory protection Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment. If

engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Aqueous suspension.

ColourBlack.OdourOdourless.

Odour threshold Property has not been measured.

**pH** 8 - 11

Melting point/freezing point Property has not been measured.

Initial boiling point and boiling Property has not been measured.

range

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Flash point Property has not been measured.

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Explosive limit - lower (%) Property has not been measured. Explosive limit - upper Property has not been measured.

(%)

Vapour pressure Property has not been measured. Property has not been measured. Vapour density

Relative density 1 - 1.2 (Water = 1)

Solubility(ies)

Solubility (water) Miscible.

Partition coefficient Property has not been measured. (n-octanol/water)

**Auto-ignition temperature** Property has not been measured. **Decomposition temperature** Property has not been measured. **Viscosity** Property has not been measured.

Other information

Density Property has not been measured. Property has not been measured. Kinematic viscosity

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Keep from freezing. Incompatible materials Strong oxidising agents. Water reactive materials.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged or repeated skin contact may result in minor irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eve damage/eve

irritation

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Direct contact with eyes may cause temporary irritation.

### Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

PlumeStop® SDS Canada Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Product Species Test Results** 

PlumeStop® (CAS Mixture)

Aquatic Chronic

Fish LC50 Fathead minnow > 100 mg/l, 96 hr

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

This product is miscible in water. Expected to be mobile in soil.

Other adverse effects

None known.

## 13. Disposal considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

### 14. Transport information

#### **TDG**

Not regulated as dangerous goods.

## IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

## 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

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### **Rotterdam Convention**

Not applicable.

## **Kyoto Protocol**

Not applicable.

### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Taiwan Chemical Substance Inventory (TCSI)

## 16. Other information

Taiwan

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Regenesis cannot anticipate all conditions under which this information and its product, or the Disclaimer

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

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Yes