

# ERS 101 OIL SPILL CLEANER

#### **Product Description:**

ERS 101 is one of the top performance oil spill cleaner which can clean almost all kinds of oils and greases.

ERS 101 is a non-toxic, low-foaming, non skin irritating, biodegradable and environmental friendly oil spill cleaner. It is made of powerful Nano Biotech Colloidal Micelles (NBCM) of non-toxic natural plant extracts, plant derivatives and biodegradable surfactants. NBCM posses the power and capacity to break down almost all types of aqueous organic molecules and hydrocarbons. It can be used with either plain water or sea water without any difficulties.



ERS 101 does not contain acids, fragrance, petroleum distillates, soaps, chemical thickening agent, nitrate, enzyme, phosphate, synthetic alcohol, animal fatty acid, aliphatic and aromatic hydrocarbon toxic solvents, non-biodegradable surfactants, CFC and ozone depleting substances.

# Application:

ERS 101 effectively removes oils, grease and odor. It is specially formulated for deep cleansing on rocks, soil and sand. It is a superb product for cleaning animal fur contaminated with oil and grease without irritating the animal skin. It can also be used to wash personal protective gear and tools during oil spill.

#### **Directions:**

**Rocks, soil and sand:** Apply desired amount of ERS 101 onto contaminated areas by either spraying or mopping. Leave it for at least 15 minutes. Rinse off thoroughly with either plain water or sea water. For seaside rocks and beach, after the application of ERS 101, leave it and wait for the sea water high tide to rinse it off.

**Animal fur:** Apply desired amount of ERS 101 onto the contaminated fur using hand. Lather and rinse off thoroughly with either plain water or sea water.

**Manufactured by:** Shemical International Sdn. Bhd. (647023-U) 109A, Jalan Gebeng 1/6, 26080 Kuantan, Pahang, Malaysia. http://www.shemical.com

Net weight: 

1 kg 
5 kg 
20 kg





# **SUPERSORB**

#### **Product Description**

Supersorb is developed by using the technology of high surface area mineral fillers and organic cellulose adsorbents. It uses the concept of "cellulose/filler attraction" or the force of adhesion between solid and liquid in cellulose / fillers.

Supersorb is a superior value product for commercial and household market. It can be applied from smooth to rough hard surfaces. The fine mineral fillers enable it to adsorb deep inside the pores of the rough surfaces. It gives a very clean and dry absorption over the spills. Because of the upper and lower crystal surface dissimilarity, the mineral fillers of Supersorb can bond to itself resulting most of the spills bond to each other in clumps. Thus, the spill can be easily sweep off and discarded.

#### **Application**

Supersorb can be used on all hard surfaces for the following spills:

Petrol	Synthetic Oil	Diesel	Solvents
Crude Oil	Cooking Oil	Paraffin	Lubricants
Urine	Food	Blood	Human faeces
Animal faeces	Sauces	Drinks	Wet cement
Wet paint	Food waste	Wet mud	Liquid detergent

#### **Advantages**

- · Adsorbs variety of spills compared to other adsorbents
- Adsorbs all kind of liquid hydrocarbons
- · Reduce the odour of the spill
- Require no secondary detergent wash
- · Solvent free
- Spills bond with adsorbent in clumps
- Quick, safe and minimum leaching
- · Harmless to human, animals and plants.

#### **Directions**

Ensure the source of the spillage is stopped. Surround the spill with Supersorb and then spread the entire spillage with Supersorb evenly. Use a scoop rake or broom and move it back and forth over the spillage until the spillage is completely adsorbed and the surface is dry. It is important to spread enough Supersorb over the spillage in order to get a non slick surface. Sweep off the clump and discard it off. The surface is now clean and dry.





# **MULTI-SPILL SORBENT**

# **Product Description**

Multi-Spill Sorbent is developed by using the technology of high surface area mineral fillers and natural cellulose wood chips. It uses the concept of adsorption and dehydration.

Multi-Spill Sorbent is a superior value product for commercial and household market. It can be applied from smooth to rough hard surfaces. The mixture of chips and fine mineral fillers enable it to adsorb deep inside and outside of the rough surfaces.

# **Application**

Multi-Spill Sorbent can be used on all hard surfaces for the following spills:

Petrol Synthetic Oil Diesel Oil sludge
Crude Oil Cooking Oil Paraffin Vomit
Animal faeces Thick Sauces Wet paint Liquid chemicals

# **Advantages**

- Adsorbs variety of spills compared to other adsorbents
- · Adsorbs all kind of oils
- Reduce the odour of the spill
- Solvent free
- Spills bond with adsorbent in clumps
- Quick, safe and minimum leaching
- · Harmless to human, animals and plants.

#### **Directions**

Ensure the source of the spillage is stopped. Surround the spillage with Multi-Spill Sorbent and then spread the entire spillage with Multi-Spill Sorbent evenly. Use a scoop rake or broom and move it back and forth over the spillage until the spillage is completely adsorbed and the surface is dry. It is important to spread enough Multi-Spill Sorbent over the spillage in order to get a non slick surface. Sweep off the clump and discard it off. The surface is now clean and dry.







# **NEUTRALIZER ADSORBENT**

#### **Product Description**

Neutralizer Adsorbent is made of mineral fillers. It uses the concept of neutralization reaction and capillary attraction. Neutralizer Adsorbent can neutralise both acids and bases without spattering.

Neutralizer Adsorbent + Acid => Salt + Water + Carbon Dioxide

Neutralizer Adsorbent + Base => Salt + Water

Acid or base spill will decelerate once Neutralizer Adsorbent is applied. The volume of the liquid spill will decrease tremendously into salt, water and a small volume of carbon dioxide.

#### **Application**

Neutralizer Adsorbent is a specific product developed to meet the specific needs of the acids and bases spillage of the following:

Chemical factories Acid spill accidental area Battery manufacturers
Chemical warehouses Base spill accidental area Chemical cargo ships

#### **Advantages**

- No spattering compared to other neutralization agents
- · Biodegradable and Environmental friendly
- · Can be used for both acid and base spills
- Fire resistant properties
- Reduce the volume of liquid acid or base spill to salts, water and carbon dioxide
- · Reduce the odour of the spill
- · Decelerate the moving acid or base spill
- · No violent reaction
- · Quick, safe and minimum leaching
- Non-toxic and harmless to human, animals and plants.

#### Directions

Surround the acid or base spill with Neutralizer Adsorbent from the lowest level of the spillage area. Spread the entire spillage area with Neutralizer Adsorbent until reaction is observed. Use a non metal scoop or rake and move it back and forth until the spill is completely stopped and adsorbed to form clumps. The used material should disposed according the regulation of the local government.

For safety precaution, it is advisable to wear respirator and protective gloves and clothing while cleaning acid or base spill.







# **HYDROCARBON ADSORBENT**

#### **Product Description**

Hydrocarbon Adsorbent is made of natural biodegradable organic cellulose fibre. It uses the concept of 'capillary attraction' between fibres. It only adsorbs oils, lubricants, fuels and other hydrocarbon fluids from water surface and leave water behind. With its high buoyancy and light weight, its hydrocarbon adsorption ratio capacity can reach up to a 25:1.

#### **Application**

Hydrocarbon Adsorbent is a specific product developed to meet the specific needs of the following:

Offshore rigs Refineries terminals Port Bulk terminals Jetty Marinas

Petrol depot Beaches Mangrove areas

Marine park Marine accidental area Fish farm

It is highly recommended to navy, port authority, ship operators, petrol chemical companies, municipal councils, agricultural department, drainage and irrigation department, environment department and fisheries department.

#### **Advantages**

- · Adsorbs oil and fuel from rivers, streams and oceans
- Environmental friendly posing no dangers to flora, fauna and aquatic life
- Reduce fire hazard around docks and piers
- Deodorise the odour of the spill
- Elimination nuisance and contamination problems
- · Reduce clean up time after accidental spill
- Reduce contamination due to faulty oil water separator
- · Quick, safe and minimum leaching
- Non-toxic and harmless to human, animals and plants.

#### **Directions**

Surround the oil spill with Hydrocarbon Adsorbent socks or booms. Spread the entire area with Hydrocarbon Adsorbent until the spillage is completely covered. The wind and wave action will asserts Hydrocarbon to adsorb oil and fuel faster. The hydrocarbon can be retrieved by using nets. The used material should be disposed according to the local government regulations.





# **ACID & BASE ADSORBENT**

# **Product Description**

Acid & Base Adsorbent is made of biodegradable organic cellulose fibre. It uses the concept of 'capillary attraction' between fibres. It adsorbs acids, alkalis, solvents, oils and water based liquids. The 100% biodegradable organic cellulose fibre can soaks up to 16 times its weight in liquids.

# **Application**

Neutralizer Adsorbent is a specific product developed to meet the specific needs of the acids and bases spillage of the following:

Chemical factories	Acid spill accidental area	Battery manufacturer
Chemical warehouses	Base spill accidental area	Chemical cargo ships

#### **Advantages**

- · Adsorbs acids, alkalis, solvents, oils and water based liquids from hard surface
- Environmental friendly and biodegradable organic cellulose posing no dangers to flora, fauna and aquatic life
- Elimination nuisance and contamination problems
- · Reduce clean up time after accidental spill
- · Decelerate moving acid and base spills
- · Quick, safe and minimum leaching
- Non-toxic and harmless to human, animals and plants.

#### **Directions**

Surround the spillage with Acid and Base Adsorbent socks or booms. Spread the entire area with adsorbent until the spill is completely covered. The used material should be disposed according to the local government regulations.





# **MULTI-PURPOSE ADSORBENT**

#### **Product Description**

Multi-Purpose Adsorbent is made of biodegradable organic cellulose fibre. It uses the concept of 'capillary attraction' between fibres. It adsorbs non-aggressive liquids like oils, coolants and water based liquids. The 100% biodegradable organic cellulose fibre can soaks up to 16 times its weight in liquids.

#### **Application**

Multi-Purpose Adsorbent is a specific product developed to meet the specific needs of the geeral spillage of the following:

#### **Advantages**

Petrol	Synthetic Oils	Diesel	Solvents
Lubricants	Cooking Oil	Coolants	Liquid chemicals

- Adsorbs non-aggressive liquids like oils, coolants and water based liquids from hard surface
- Environmental friendly and biodegradable organic cellulose posing no dangers to flora, fauna and aquatic life
- Elimination nuisance and contamination problems
- Reduce clean up time after accidental spill
- · Decelerate moving spills
- · Quick, safe and minimum leaching
- Non-toxic and harmless to human, animals and plants.

#### **Directions**

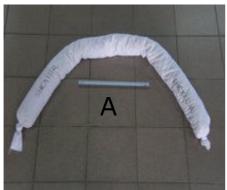
Surround the spillage with Multi-Purpose Adsorbent socks or booms. Spread the entire area with adsorbent until the spill is completely covered. The used material should be disposed according to the local government regulations.





#### **Adsorbent Boom**

Diameter = 6 in (152.4 mm) Length = 10 ft (3048 mm) Weight = 3.3 lb (1500 g)



## **Adsorbent Socks**

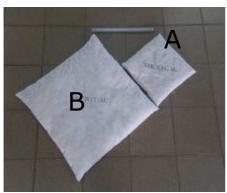
## Sock A

Diameter = 3 in (76.2 mm) Length = 4 ft (1219.2 mm) Weight = 0.44 lb (200 g)



## Sock B

Diameter = 3 in (76.2 mm) Length = 8 ft (2438.4 mm) Weight = 0.88 lb (400 g)



## **Adsorbent Pillows**

# Pillow A

10 in x 10 in (254 mm x 254 mm) Weight = 0.11 lb (50 g)

#### Pillow B

20 in x 20 in (508 mm x 508 mm) Weight = 0.33 lb (150 g)









WARNING BARRIER TAPE

WARNING LABEL





PROTECTIVE COATING





PLASTIC TIES



GOGGLE







Multi-Purpose Spill Kits 5 Gallon (18.9L)



Oil Spill Kits 5 Gallon (18.9L)



Acid & Base Spill Kits 5 Gallon (18.9L)



Multi-Purpose Spill Kits 20 Gallon (75.7L)



Oil Spill Kits 20 Gallon (75.7L)



Acid & Base Spill Kits 20 Gallon (75.7L)



Multi-Purpose Spill Kits 30 Gallon (113.6L)



Oil Spill Kits 30 Gallon (113.6L)



Acid & Base Spill Kits 30 Gallon (113.6L)





Multi-Purpose Spill Kits 85 Gallon (321.8L)



Oil Spill Kits 85 Gallon (321.8L)



Acid & Base Spill Kits 85 Gallon (321.8L)



Multi-Purpose Spill Kits 95 Gallon (359.6L)



Oil Spill Kits 95 Gallon (359.6L)



Acid & Base Spill Kits 95 Gallon (359.6L)



# 5 gallons/18.9 liters Spill Response Kits

# **Product Description**

All Shemical's Emergency Response Spill kits come packed in easy-to-handle storage and shipping containers. Each kit is packed with high efficiency sorbents. Sorbents are made of biodegradable and environment friendly materials. It has economical re-fills, and individual kit components are always available separately.

- Handles more than 4 gallons/15.1 liters
- Ideal for shipping/receiving areas & work stations
- · Easy to carry & easy to store

Kit Components	Multi-Purpose Spill Kits	Oil Spill Kits	Acid & Base Spill Kits
Sock: 3"x4' (76.2mmx1219.2mm)	4	4	4
Sock: 3"x8' (76.2mmx2438.4mm)	-	-	-
Pillow: 10"x10" (254mmx254mm)	2	2	2
Pillow: 20"x20" (508mmx508mm)	1	-	1
Paper Roll: 9"x9" (228.6mmx228.6mm)	1	1	1
Supersorb: 4.4lb (2kg)	1	1	-
Neutralizer Adsorbent: 4.4lb (2 kg)	-	-	1
Heavy Duty Disposal Bag	2	2	2
Plastic Tie	3	3	3
Warning Labels	2	2	2
Warning Barrier Tape	1	1	1
Corrosive Resistant Gloves	1	1	1
Goggle	1	1	1
Protective Clothing, XL	-	-	-
Spill Kit Instructions	1	1	1



# 20 gallons/75.7 liters Spill Response Kits

# **Product Description**

All Shemical's Emergency Response Spill kits come packed in easy-to-handle storage and shipping containers. Each kit is packed with high efficiency sorbents. Sorbents are made of biodegradable and environment friendly materials. It has economical re-fills, and individual kit components are always available separately.

- Handles more than 15 gallons/56.8 liters
- Reusable container
- · Include gloves and goggles for one worker
- Container can be used to temporarily stores used sorbents

Kit Components	Multi-Purpose Spill Kits	Oil Spill Kits	Acid & Base Spill Kits
Sock: 3"x4' (76.2mmx1219.2mm)	14	14	14
Sock: 3"x8' (76.2mmx2438.4mm)	-	-	-
Pillow: 10"x10" (254mmx254mm)	5	5	5
Pillow: 20"x20" (508mmx508mm)	2	-	2
Paper Roll: 9"x9" (228.6mmx228.6mm)	1	1	1
Supersorb: 4.4lb (2kg)	1	1	-
Neutralizer Adsorbent: 4.4lb (2 kg)	-	-	1
Heavy Duty Disposal Bag	3	3	3
Plastic Tie	4	4	4
Warning Labels	3	3	3
Warning Barrier Tape	1	1	1
Corrosive Resistant Gloves	1	1	1
Goggle	1	1	1
Protective Clothing, XL	-	-	-
Spill Kit Instructions	1	1	1



# 30 gallons/113.6 liters Spill Response Kits

# **Product Description**

All Shemical's Emergency Response Spill kits come packed in easy-to-handle storage and shipping containers. Each kit is packed with high efficiency sorbents. Sorbents are made of biodegradable and environment friendly materials. It has economical re-fills, and individual kit components are always available separately.

- Handles more than 25 gallons/94.6 liters
- Reusable container
- · Include gloves and goggles for two workers
- Container can be used to temporarily stores used sorbents

Kit Components	Multi-Purpose Spill Kits	Oil Spill Kits	Acid & Base Spill Kits
Sock: 3"x4" (76.2mmx1219.2mm)	14	14	14
Sock: 3"x8' (76.2mmx2438.4mm)	3	-	3
Pillow: 10"x10" (254mmx254mm)	6	6	6
Pillow: 20"x20" (508mmx508mm)	10	4	10
Paper Roll: 9"x9" (228.6mmx228.6mm)	2	2	2
Supersorb: 4.4lb (2kg)	2	2	-
Neutralizer Adsorbent: 4.4lb (2 kg)	-	-	2
Heavy Duty Disposal Bag	4	4	4
Plastic Tie	5	5	5
Warning Labels	4	4	4
Warning Barrier Tape	2	2	2
Corrosive Resistant Gloves	2	2	2
Goggle	2	2	2
Protective Clothing, XL	-	-	-
Spill Kit Instructions	1	1	1



# 85 gallons/321.8 liters Spill Response Kits

# **Product Description**

All Shemical's Emergency Response Spill kits come packed in easy-to-handle storage and shipping containers. Each kit is packed with high efficiency sorbents. Sorbents are made of biodegradable and environment friendly materials. It has economical re-fills, and individual kit components are always available separately.

- Handles more than 75 gallons/283.9 liters
- Reusable container
- Include protective equipments for two workers
- Container can be used to store and ship used sorbents

Kit Components	Multi-Purpose Spill Kits	Oil Spill Kits	Acid & Base Spill Kits
Sock: 3"x4' (76.2mmx1219.2mm)	15	15	15
Sock: 3"x8" (76.2mmx2438.4mm)	10	6	10
Pillow: 10"x10" (254mmx254mm)	30	10	30
Pillow: 20"x20" (508mmx508mm)	40	15	40
Paper Roll: 9"x9" (228.6mmx228.6mm)	2	2	2
Supersorb: 22lb (10kg)	1	1	-
Neutralizer Adsorbent: 22lb (10 kg)	-	-	1
Heavy Duty Disposal Bag	8	8	8
Plastic Tie	9	9	9
Warning Labels	8	8	8
Warning Barrier Tape	3	3	3
Corrosive Resistant Gloves	2	2	2
Goggle	2	2	2
Protective Clothing, XL	2	2	2
Spill Kit Instructions	1	1	1



# 95 gallons/359.6 liters Spill Response Kits

#### **Product Description**

All Shemical's Emergency Response Spill kits come packed in easy-to-handle storage and shipping containers. Each kit is packed with high efficiency sorbents. Sorbents are made of biodegradable and environment friendly materials. It has economical re-fills, and individual kit components are always available separately.

- Handles more than 80 gallons/302.8 liters
- Reusable container
- Include protective equipments for two workers
- Container can be used to store and ship used sorbents

Kit Components	Multi-Purpose Spill Kits	Oil Spill Kits	Acid & Base Spill Kits
Sock: 3"x4' (76.2mmx1219.2mm)	15	15	15
Sock: 3"x8' (76.2mmx2438.4mm)	12	8	12
Pillow: 10"x10" (254mmx254mm)	30	10	30
Pillow: 20"x20" (508mmx508mm)	48	16	48
Paper Roll: 9"x9" (228.6mmx228.6mm)	3	3	3
Supersorb: 22lb (10kg)	1	1	-
Neutralizer Adsorbent: 22lb (10kg)	-	-	1
Heavy Duty Disposal Bag	10	10	10
Plastic Tie	11	11	11
Warning Labels	10	10	10
Warning Barrier Tape	3	3	3
Corrosive Resistant Gloves	2	2	2
Goggle	2	2	2
Protective Clothing, XL	2	2	2
Spill Kit Instructions	1	1	1