

## SPILL-X-C Caustic Neutralizing/Solidifying Spill Treatment Agent

### Features

- Single-step agent application
- Renders neutral salt for clean-up and disposal
- Free-flowing agent can be applied directly from pail, shaker, drum, or with SPILL-GUN applicator
- Easy-open pail cover makes tools unnecessary and reduces spill response time
- Complete instructions with pictograms guide the user from start to finish during spill clean-up
- Instructions include application list of field-tested chemicals
- Application rates for the most common caustic spills included in the instructions

### Application

SPILL-X-C caustic neutralizer is a product specifically formulated to **treat** spills of common caustics and organic bases. Laboratory and field tests have shown SPILL-X-C agent to be effective at neutralizing and solidifying spills of many caustics including sodium hydroxide, ammonium hydroxide, aniline, diethylamine, potassium hydroxide, and hydrazine, to name a few. SPILL-X-C agent should be placed anywhere caustics are handled and where the possibility of a caustic spill exists. This includes shipping and receiving areas, caustic container storage locations, and caustic use and transfer operation sites.

### Description

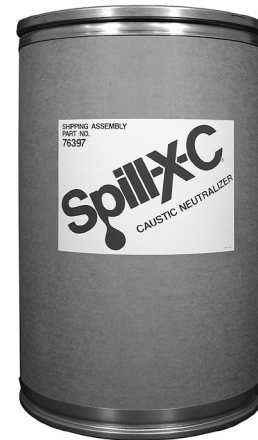
SPILL-X-C agent is a proprietary product comprised of citric and fumaric acid blended with other chemical additives. Manufactured to meet rigorous specifications, the agent is a free-flowing dry chemical which is itself environmentally non toxic. SPILL-X-C agent has a tannish coloration to differentiate it from other spill control compounds.

Because all SPILL-X brand agents are formulated for chemical spill treatment, predictable and effective control of your hazardous spills is now possible. Specifically, when properly used, SPILL-X-C agent changes the pH of a hazardous caustic spill so it no longer exhibits the Environmental Protection Agency characteristic of corrosivity for hazardous waste (a pH less than or equal to 2 or greater than or equal to 12.5). Disposal of spill waste material must meet local, state and federal regulations.

Sealed in moisture-resistant plastic pails, SPILL-X-C agent has an indefinite shelf life. For maximum readiness, SC-30-C SPILL-GUN applicators, charged with SPILL-X-C agent, are designed to be weather and corrosion resistant and remain operable over a temperature range from -65 °F to 120 °F (-54 °C to 49 °C).



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## Performance

A typical 3 gallon (11.4 L) caustic spill can spread out to cover over 80 ft<sup>2</sup> (7.4 m<sup>2</sup>) of area. On average, one pail of SPILL-X-C agent can neutralize and solidify this size spill. In contrast, traditional spill response techniques use large quantities of common sorbents like sand or pillows, all of which acquire the hazardous characteristic of corrosivity upon contact with the caustic spill, and thus compound the amount of hazardous residue to be disposed.

From the time that SPILL-X-C agent is applied to a spill until the time the treatment reaction is complete, generally takes 10 to 20 minutes depending on the type and amount of caustic treated. The agent is designed to produce a predictable and mild reaction, generating only moderate heat. Properly treated spills will have a paste-like appearance and will harden rapidly for easy cleanup.

Test the cooled spill residue for pH and add more SPILL-X-C agent if required. The following is a partial list of caustics which can be neutralized with SPILL-X-C agent and the predominant residue (salt) which results from each. Referencing an authoritative chemical dictionary and other handbooks can help in your understanding of the nature of the spill waste residue generated.

<u>Caustic</u>	<u>Predominant Residue Remaining</u>
Ammonium Hydroxide	Ammonium Citrate
Potassium Hydroxide	Potassium Citrate
Sodium Hydroxide	Sodium Citrate (Trisodium Citrate)

Additional treatment information, including agent use ratios, is available in the SPILL-X Spill Control Treatment Guide (Part No. 78908).

## Product Properties

Density	0.980 g/cc
Acidity	2.0<pH<2.5
Hygroscopicity	less than 2%
Fill Weights	
Agent Containers:	
plastic pail	42 lb (19.1 kg)
fiber drum	168 lb (76.3 kg)
SPILL-GUN Applicator SC-30-C	25 lb (11.4 kg)

## Ordering Information

For small caustic spills, such as those which occur in labs and stockrooms, choose the SPILL-X-C Spill Treatment Shakers.

<u>Part No.</u>	<u>Description</u>
76396	42 lb (19 kg) Pail SPILL-X-C Agent
76397	168 lb (76.2 kg) Drum SPILL-X-C Agent
78777	SPILL-X-C Treatment Kit (Six 2 lb (0.91 kg) Containers)
77261	SPILL-X-C Refill
76089	SC-30-C SPILL-GUN Applicator



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For additional information concerning Treatment Kits, see Data Sheet F-2009070. For information concerning SPILL-GUN applicators, see Data Sheet F-2009069.

**Note:** The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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