





SOUTHWEST GAS CORPORATION
ENGINEERING STAFF
MATERIAL SPECIFICATION

Section No.:	MS O-16
Page No.:	1 of 5
Issue Date:	03/01/16
Superseded Date:	02/23/15

Prepared By: Engineering Staff 
Approved By: Jerome T. Schmitz 

MISCELLANEOUS
Leak Soap

1. SCOPE

This specification covers the composition and performance of leak detector solution or soap. This solution is used to locate natural gas leaks on pipes and fittings.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) D-92, "Flash and Fire Points by Cleveland Open Cup Method."
- 2.2 Hazardous Communications Standard, Code of Federal Regulations, Title 29, Part 1910.1200 (29 CFR 1910.1200).
- 2.3 United States Department of Transportation (DOT), Code of Federal Regulations (CFR), Title 49, Part 192, "Transportation of Natural and Other Gas by Pipeline; Minimum Safety Standards."

NOTE: Unless otherwise specified, the editions of the above documents incorporated by DOT 49 CFR are applicable. Documents not incorporated by DOT 49 CFR will be the most recent edition.

3. TERMINOLOGY



3.1 General

- 3.1.1 "Southwest Gas," "Southwest" or "SWG" wherever used in this specification and other related documents will refer exclusively to Southwest Gas Corporation.
- 3.1.2 The terms "approved," "as approved," "satisfactory," "as directed," "or equal" or other similar terms wherever used in this specification and other related documents will mean "as determined by Southwest Gas," unless specifically stated otherwise.
- 3.1.3 "Product Information Package" or "PIP" wherever used in this specification and other related documents will mean the required technical product information that a manufacturer must submit to SWG to determine if the product is suitable for use by SWG, unless specifically stated otherwise.



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4. CHEMICAL COMPOSITION

- 4.1 The solution will be pink in color.
- 4.2 The solution will contain an antifreeze agent approved by Southwest. Propylene glycol is approved for use. If propylene glycol is used, the solution shall be approximately 40 percent propylene glycol by volume.
- 4.3 The solution will contain appropriate corrosion inhibitors.

5. PERFORMANCE REQUIREMENTS

- 5.1 The solution will perform effectively down to a low temperature of -15°F.
- 5.2 The solution will not be corrosive to metal or its protective coating (i.e., paint, epoxy, polyethylene, etc.).
- 5.3 The application of the solution will not require any special personal protection.
- 5.4 The solution will be capable of being applied free of bubbles so that bubbles appear only at a leak.
- 5.5 The solution will provide an easily visible amount of lasting foam when exposed to leaks of minimum flow.
- 5.6 The solution will not leave more than 1 percent non-volatile residue upon evaporation.
- 5.7 The solution will not trigger any leak detection equipment, either combustible gas indicators or flame ionization units.



6. INSPECTION

- 6.1 Successful review of the Product Information Package (PIP), as well as any future reference by SWG to the Seller's part number or internal code number in any future contract or purchase, will mean only that no conflict with the specification was found, and will not relieve the Seller from meeting all the requirements of this specification.



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6. INSPECTION (Cont'd)

- 6.2 SWG retains the option to inspect the manufacture and testing of any and all materials, products or systems referenced in this specification that are sold to Southwest.
- 6.3 SWG will make appropriate inspections and tests of any and all materials, products or systems supplied to this specification. SWG will have the right, at its option, to reject any material which fails to conform to this specification. Any such rejection may take place at the manufacturer's facility; the supplier's warehouse or any subsequent delivery location, before or after Southwest assumes possession. Notice of the rejection will be made promptly to the supplier by SWG. The defective product will be replaced or returned for credit at the manufacturer's expense.
- 6.4 Any changes in the manufacturing of previously approved materials, products or systems described in this material specification for sale to SWG, must be approved by SWG's Engineering Staff. **Failure to obtain SWG's approval may be cause for rejection and disqualification as an approved supplier.**

7. CERTIFICATION



The manufacturer's or supplier's certification shall be furnished to Southwest. This certification shall state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that requirements have been met. When requested or specified in the purchase order or contract, a report of test results will be provided.

Upon the request of Southwest, the certification of an independent third party indicating conformance to the specification may be considered at Southwest's expense.



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8. SAFETY DATA SHEETS

In accordance with law, the Seller will supply a Safety Data Sheet for all applicable items supplied under this specification to the following:

- 1) The Receiving Location
- 2) Southwest Gas Engineering Staff
- 3) Southwest Gas Corporation
Corporate Safety
Mail Station LVA-120
P.O. Box 98510
Las Vegas, NV 89193-8510

9. PRODUCT MARKING

The containers in which the solution is kept will be marked in accordance with the Hazardous Communications Standard (29 CFR 1910.1200).

10. PACKAGING AND PACKAGE MARKING

Leak detection solution will be packaged in 1-gallon bottles, 5-gallon pails or 55-gallon drums. All products covered in this specification will be packaged in a manner to prevent damage during transportation and storage.

11. STOCK CLASSIFICATION DESCRIPTION

SOAP, LEAK DETECTOR SOLUTION; PINK TINT; 1-GALLON BOTTLE, 6-1 GALLON BOTTLES/CASE, 5-GALLON PAIL OR 55-GALLON DRUM.