






# OMNI•FILL®

## Custom Aerosol Filling System

## OPERATORS MANUAL

**Super Omni-Fill® System 100**

**Omni-Fill® System 35**

**Omni-Fill® System 15**

**Omni-Fill® System 11EZ**

# OMNI•FILL® OMNI•PAK®

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## INFORMATION

**OMNI-FILL®** is a very efficient means of providing instant custom color matches in convenient aerosol cans. Select an Omni-Pak® aerosol base and inject the custom color into the can, utilizing an Omni-Fill® aerosol filling system.

**OMNI-PAK®** aerosol cans contain reducing solvents and propellant. Proper space remains in each can, allowing for the addition of paint. This creates the ultimate finished aerosol.


**SELECTING A PROPER OMNI-PAK® BLEND** is the first step.

**MasterBlend™** is designed for solvent-based paints. Although most products will custom-fill without reduction, lacquers should be reduced 5 parts lacquer to 1 part lacquer reducer for optimum atomization.

**One-Blend** is a universal formulation and can be filled with most solvent-based air dry coatings, along with some water-reducible products (KemAqua® 280). A female can adapter (part B15100) is required for One-Blend. Latex paints cannot be aerosolized. Most lacquers can be reduced 5 parts lacquer to 1 part lacquer reducer, in order to adjust the viscosity prior to filling. Enamels should be filled unreduced.

**Note:** Spray testing with any blend is recommended with the first can, for application and compatibility.

**IN SELECTING THE PROPER OMNI-FILL® SYSTEM,** potential of cans to fill is a major consideration. Time, labor and ease of use will also factor into your decision. Four Omni-Fill® systems are available: System 11-EZ, 15, 35 and Super 100. The Omni-Fill® 11-EZ can be used only with MasterBlend™ EZ TOUCH.® All other systems can be used with any Omni-Pak® can, utilizing the female can adapter.

**THANK YOU** for choosing Omni-Fill® and Omni-Pak® for the ultimate custom filling available in our marketplace!

**PLEASE RETAIN THIS MANUAL**
**FOR OPERATING INSTRUCTIONS FOR ALL SYSTEMS.**

OMNI•FILL®

## TECHNICAL UPDATE

### IMPORTANT CORPORATE SAFETY ANNOUNCEMENT!

**An independent laboratory performed a recent study. The scope of this study was two-fold.**

1) **Vapor flammability**
2) **Over-all safety of the Super 100® and Model 15® Omni-Fill Machines.**

The scope of the vapor flammability study was to measure the vapors inside the machine, outside the machine, during paint transfer and during filling.

The independent laboratory analysis indicated that the atmosphere around the system is not hazardous. The vapors measured 12" on the exterior of the machine were below the ignitable concentration during normal operation. As a conservative measure, a five-foot ignition free zone (no ordinary electrical equipment) should be provided around the system and flammable paint transfer should be conducted in ventilated areas in accordance with NFPA 30*.

The safety portion of the study was to see if it was possible to over-fill and potentially burst cans during filling. Tests on the Super 100® showed that it would be difficult to burst a can. Modifications would have to be made to the safety features installed for failure to occur. On the Model 15® it was found that excessive force was necessary to induce can failure.

* New flammable paint exceptions involving paint dispensing/tinting ≤ 16 oz. are proposed in the "Dispensing, handling and use" section of Mercantile Occupancies, NFPA30. Flammable and combustible liquid code, 2006 Ed.

# SUPER OMNI•FILL® System 100


*Item B10000*

## THE MOST ADVANCED AEROSOL FILLING SYSTEM ON THE MARKET

**A fully pneumatic, universal pump for filling maximum quantities of Omni-Pak® aerosol cans.***

- **Fully Automated**
- **1 Gallon Reservoir**
- **Simple to Operate**
- **Versatile**
- **Easy Maintenance**


*Omni-Pak® MasterBlend™ EZ TOUCH® requires spacers that are available as accessories.*

## Controls and Safety Features

**AUTOMATIC STROKE COUNTER.** Regulates the number of strokes per can. Each stroke inserts an equal amount of paint.

**CAN ELEVATION.** Air-operated by switch at eye level. Lifts and lowers can. Makes inserting and removing can quick and easy.

**PISTON.** One-piece. Screws on shaft finger-tight. Easily removed for cleaning, inserting or removal of the reservoir and o-ring replacement.

**STOP BUTTON.** Over-rides all previous commands. If you are interrupted while filling a can, simply press the stop button. To continue, press "Start". The stroke counter will continue where it left off.

**SAFETY DOOR LOCK.** Unit will not operate unless the doors are closed.

**RESERVOIR.** One gallon capacity, with cover to control solvent evaporation. May be filled without removing. An optional 1 quart reservoir is available.

**CAN PLATFORM.** Air operated by Can Elevation switch on eye-level control panel. Can must be in a raised position before machine will operate. Spacers for two smaller can sizes are included with accessories.

**OVER-FILL SENSOR.** Hidden in base to reduce risk of damage. Stops machine if can is overfilled (triggered by can height - an overfilled can expands). Expanded can should be discarded. Stroke counter must be reset for the next aerosol.

**AIR HOOK-UP.** Simple to connect and maintain. Automatic pressure regulation.

*MasterBlend™ and One-Blend aerosol cans require a female adapter.

## Assembly

**CHECKLIST**

After carefully uncrating, examine the machine for shipping damage. If any is found, notify your carrier immediately. Place the Super Omni-Fill® System 100 on a solid, level surface. Open the doors to the upper and lower compartments and remove the paint reservoir (100-22). It contains the following accessories:

Piston (100-14) with O-Ring (B10015)
Pressing Tool (B14628)
O-Ring Installation Tool (100-25)
Two Spacers (100-26-6 oz., 100-27-12 oz.)
Check Ball (B14633)

If any part is missing, contact your distributor.

## Air Supply

A minimum 1/3 horsepower compressor with pneumatic accumulator is required for operation of your Super Omni-Fill® System 100, although we recommend using a 1 horsepower compressor or larger to insure consistent air pressure. Connect the air hose to the outlet on the side of the unit.

The built-in air filter will cause water to collect in the filter bowl (100-64) during operation. Empty the bowl daily by turning the stem at the base of the bowl (counter clockwise) while the system is under pressure.

The air pressure is automatically regulated. It is important that the pressure remain constant. However, during the filling cycle, the piston pressure may drop to 40 psi – this is normal. The normal operating pressure is 59 psi.

**IMPORTANT - Do not use more air pressure than 59 psi.** Increasing pressure will not make the filling operation go faster, but will cause the Super Omni-Fill® System 100 to fill unevenly and could damage the unit.

## Testing the Unit

Before inserting and filling the reservoir, conduct this simple test to make sure the machine operates correctly:

1. Insert the o-ring installation tool (100-25) provided into the mid-support plate, as shown. (Note: Do not install the piston when testing the unit. Otherwise, damage to the unit may occur.)

2. Place a MasterBlend™ EZ TOUCH® can on platform and turn the switch to “Raise” position. (Unit will not operate without the can in raised position.)

3. Set the Automatic Stroke Counter to 5. (See page 19 for instructions.)

4. Close the door (unit will not operate with door open).

5. Press the green “Start” button. The torque arm (100-41) should move from its raised position to fully lowered – five times. If this does not occur, check your air pressure and your pressure connector to make sure air flow of 59 psi is reaching the pump. For further assistance, call your Super Omni-Fill 100 System representative at (866) 519-2884.

## Production

After testing the unit, remove the O-ring installation tool. Then slide the paint reservoir (100-22) into position in the top portion of the unit. Drop the Check Ball (B14633) into place inside the reservoir when required.

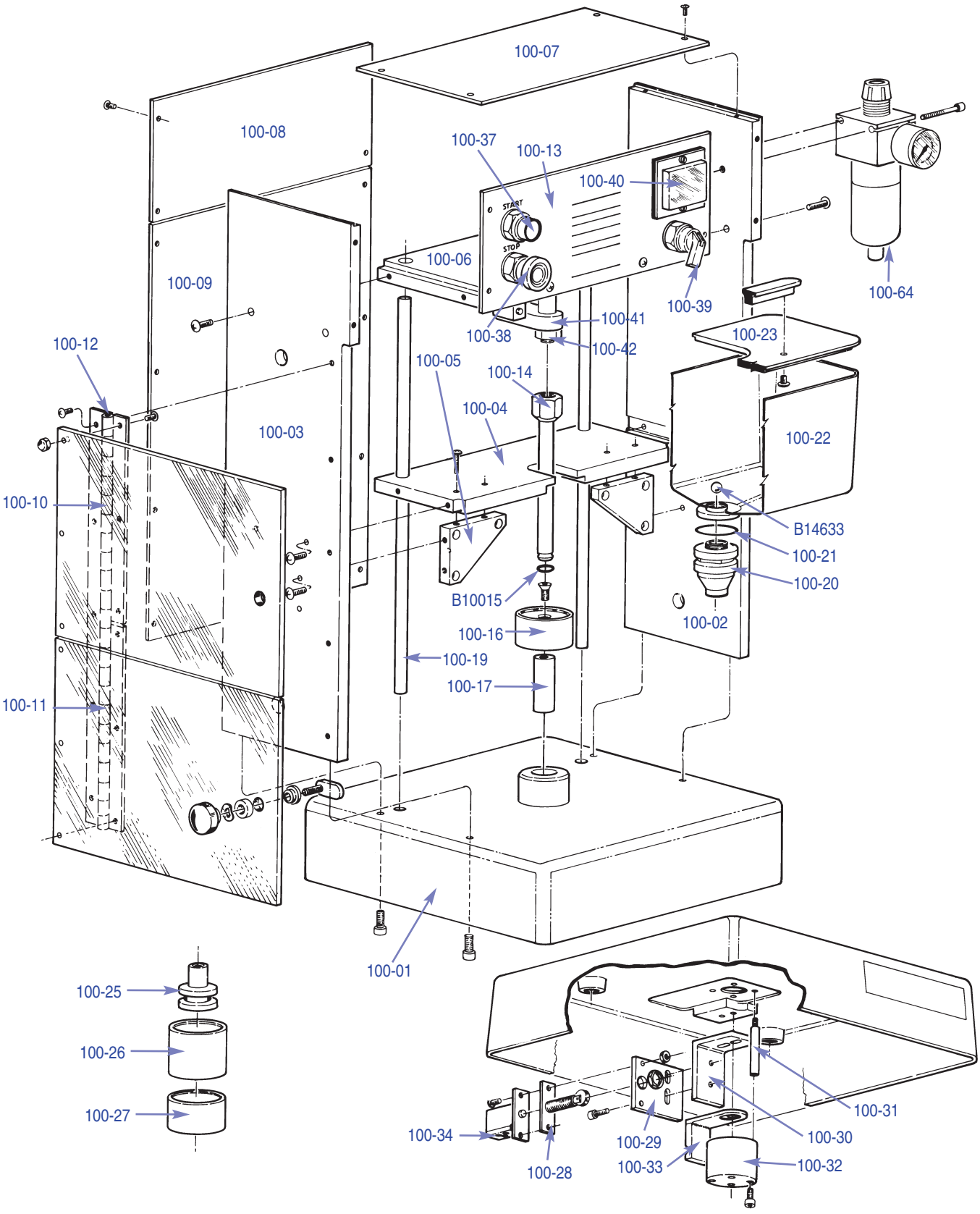
Next, attach the piston (100-14) turning counter-clockwise. (As received the O-ring was sized at the factory during testing. When replacing the O-ring refer to instructions on page 18.) To pour paint into the reservoir more easily, pull the reservoir forward, as far as the piston will allow.

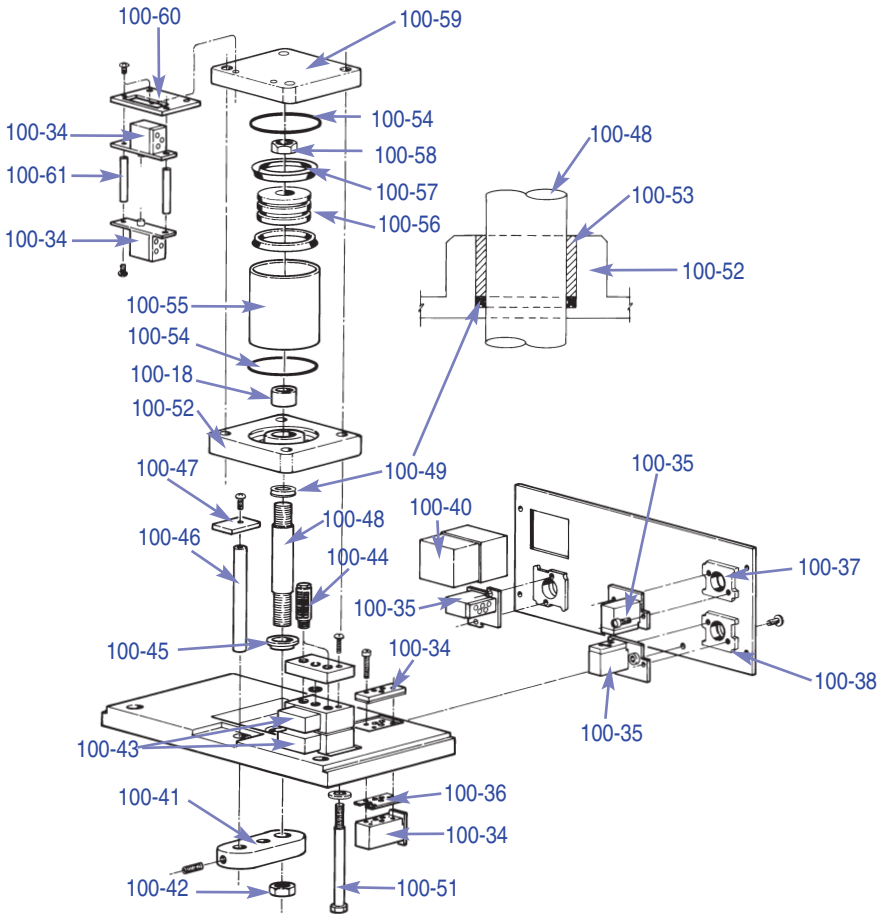
Lift the reservoir and reposition it on the Mid-support Plate (100-04). Cover the reservoir with the reservoir lid (100-23) and then close top door.

Place can on can platform, close the bottom door. Engage the can into the can receiver (#100-20) by turning the knob (100-39) to the raised position.

You are now ready to fill the aerosol by pushing the start button (100-37).

# PARTS DIAGRAM (Super Omni-Fill® System 100)






100-01 Base Casting with cover
100-02 Right-side Plate
100-03 Left-side Plate
100-04 Mid-support Plate
100-05 Gusset Plate
100-06 Top support Plate
100-07 Top cover
100-08 Upper rear cover
100-09 Lower rear cover
100-10 Front door, upper. Sub-assembly with knob and latch
100-11 Front door, lower. Sub-assembly with knob and latch
100-12 Hinge, door
100-13 Front panel
100-14 Piston
B10015 Teflon o-ring
100-16 Can platform
100-17 Platform shaft
100-18 Bronze bushing (2)
100-19 Conduit
100-20 Can Receiver
100-21 O-ring
100-22 Reservoir
100-23 Reservoir lid with handle
B14633 Check Ball
100-25 O-ring installation tool
100-26 Spacer - 6 oz. cans
100-27 Spacer - 12 0z. cans
100-28 Roller actuator
100-29 Limit mount plate
100-30 Limit mount angle bracket
100-31 Spacer, lift cylinder (4)
100-32 Lift cylinder
100-33 Cam
100-34 Valve, LM 3 (2)
100-35 Valve, PB 5 (2)
100-36 Gasket-door interlock
100-37 Button actuator, start
100-38 Button actuator, stop
100-39 Knob actuator, raise-lower
100-40 Automatic stroke counter
100-41 Torque arm
100-42 Nut, torque arm
100-43 Valve (2)
100-44 Muffler
100-45 Rod wiper
100-46 Actuator rod
100-47 Actuator
100-48 Main piston rod
100-49 Seal, main piston rod
100-50 Shuttle valve sub-assembly
100-51 Bolt & Washer
100-52 Bottom Cap
100-53 Valve, PB3 (2)
100-54 O-ring, static seal (2)
100-55 Barrel
100-56 Piston
100-57 Piston seal
100-58 Nut, piston retaining
100-59 Top Cap
100-60 Mount plate - limit valves
100-61 Spacer, limit valve mount (2)
100-62 Spacer, shutter valve mount

**Back-mounted regulators and gauges**

100-63 Air regulator
100-64 Air bowl and guard
100-65 Air regulator gauge
100-66 Can platform air regulator
100-67 Can platform air regulator gauge

# OMNI•FILL® System 35


*Item B00035*

## THE UNIVERSAL PNEUMATIC SYSTEM

**Capable of filling any quantity of Omni-Pak® aerosol cans.***

- **Automated (saves time & labor)**
- **Simple to Operate**
- **Versatile**
- **Easy Maintenance**


*Omni-Pak® MasterBlend™ EZ TOUCH® requires spacers that are available as accessories.*

## Controls and Safety Features

**AUTOMATIC STROKE COUNTER:** Regulates the number of strokes per can. Each stroke injects an equal amount of paint.

**DOOR KNOB-ON/OFF SWITCH:** The door knob activates the machine. Turn the knob clockwise to turn the machine on and counter-clock-wise to turn off.

**PISTON:** One-piece. Screws on shaft finger-tight. Easily removed for cleaning, inserting or removal of the reservoir and O-ring replacement.

**PAINT RESERVOIR:** 1 qt. can be filled without removing.

**CAN RECEIVER/CAN PLATFORM:** Can platform is raised by turning the lever clockwise, connecting can receiver to the aerosol can.

**SAFETY DOOR INTERLOCK:** Will not allow the door to shut until platform has been raised completely. Unit will not operate unless the door is closed.

**OVER-FILL SENSOR:** Hidden in the base to reduce risk of damage. Stops machine if can is overfilled (triggered by can height - on overfilled can expands). Expanded can should be discarded. Stroke counter must be reset for the next aerosol.

**UNIT MOUNTING HOLES:** Manufacturer recommends using four 1/4" bolts to mount unit onto the working surface during operation of machine.


**DWELLS:** Located on right side of unit. Adjust upward and downward stroking motion of piston. The front-needle valve controls the downward stroke dwell which can vary with paint viscosity. It was preset at the factory for most paints. The downward stroke is controlled by time. Very viscous paint may offer additional resistance and the downward stroke dwell may have to be increased to a sufficient time for a piston to complete the full stroke. The rear-needle valve controls the upwards stroke dwell, slight hesitation on the top allows the paint to flow in the can receiver where it is injected into the can. This valve is preset at the factory, and should seldom need adjustment.

*MasterBlend™ and One-Blend aerosol cans require a female adapter.

## Assembly

**CHECKLIST**

After carefully uncrating, examine the machine for shipping damage. If any is found, notify your carrier immediately.

Place the Omni-Fill® System 35 on a solid level surface. It is recommended that the unit be mounted to the working surface while in operation.

The following parts should be included with your unit:

Piston with O-ring . .(25-048)
Pressing tool . . . . .(B14628)
Paint reservoir . . . . . .(15-05)
Can receiver . . . . . .(25-051)
Check balls . . . . . .(B14633)
Extra O-ring . . . . . .(B10015)

If any part is missing, contact your distributor.

**NOTE:** Additional parts required: four 1/4" mounting bolts; Coalescing filter (not included).

**AIR SUPPLY**

A minimum 1/3 h.p. compressor with pneumatic accumulator (air tank) is required for operation of your Omni-Fill 35. However, we recommend using a 1 h.p. compressor (or larger) to insure constant air pressure.

The built-in air filter is to be used as a secondary air filter, not the primary. (NOTE: It is highly recommended to add a coalescing filter to ensure a clean, dry air supply. This filter can be attached to your direct air source or air line.) The built-in filter may cause water to collect in the filter bowl during operation. Empty the bowl daily by turning the stern at the base of the bowl while the system is under pressure.

**WARNING: The polycarbonate plastic material used to manufacture the plastic bowls may be attacked by certain chemicals. Do not use these filters on systems with air supplied by a compressor lubricated with synthetic oils or oils containing phosphate esters or chlorinated hydrocarbons. These oils can carry over into the air lines, and chemically attack and possibly rupture the bowl or sight glass.**

The air pressure is automatically regulated. It is important that the pressure remains constant. However, during the filling cycle, the gauge (25-015) pressure may fluctuate – this is normal. The normal operating pressure is 60 psi. The built-in air filter will cause water to collect in the filter bowl (100-64) during operation. Empty the bowl daily by turning the stem at the base of the bowl (counter clockwise) while the system is under pressure.

**IMPORTANT**–Do not use more air pressure than 60 psi. Increasing pressure will not make the filling operation go faster, but will cause the Omni-Fill® System 35 to fill unevenly and possibly damage the unit.

## Testing the Unit

1. Install piston (#25-048) with pre-attached O-ring into cylinder, turning clockwise.

2. Slide paint reservoir into place. DO NOT USE CHECK BALL FOR THIS OPERATION.

3. Close door and turn the knob. Turning the knob will "Start" the piston downward. Run for 5 strokes. If the piston does not move from its position, please refer to the DWELLS. As received the O-ring was sized at the factory during testing. When replacing the O-ring refer to instructions on page 18.

## Production

1. After testing the unit, pull the paint reservoir forward and drop the check ball into the reservoir when required

**(NOTE: The check ball must be inserted for correct operation of the unit. The Omni-Fill® System 35 will not function without it. Be sure to keep an extra supply on hand.)**

2. Fill reservoir with strained paint. To pour paint into the reservoir more easily, temporarily pull the reservoir as far forward as piston will allow.


3. Set the stroke counter on suggested number of strokes.

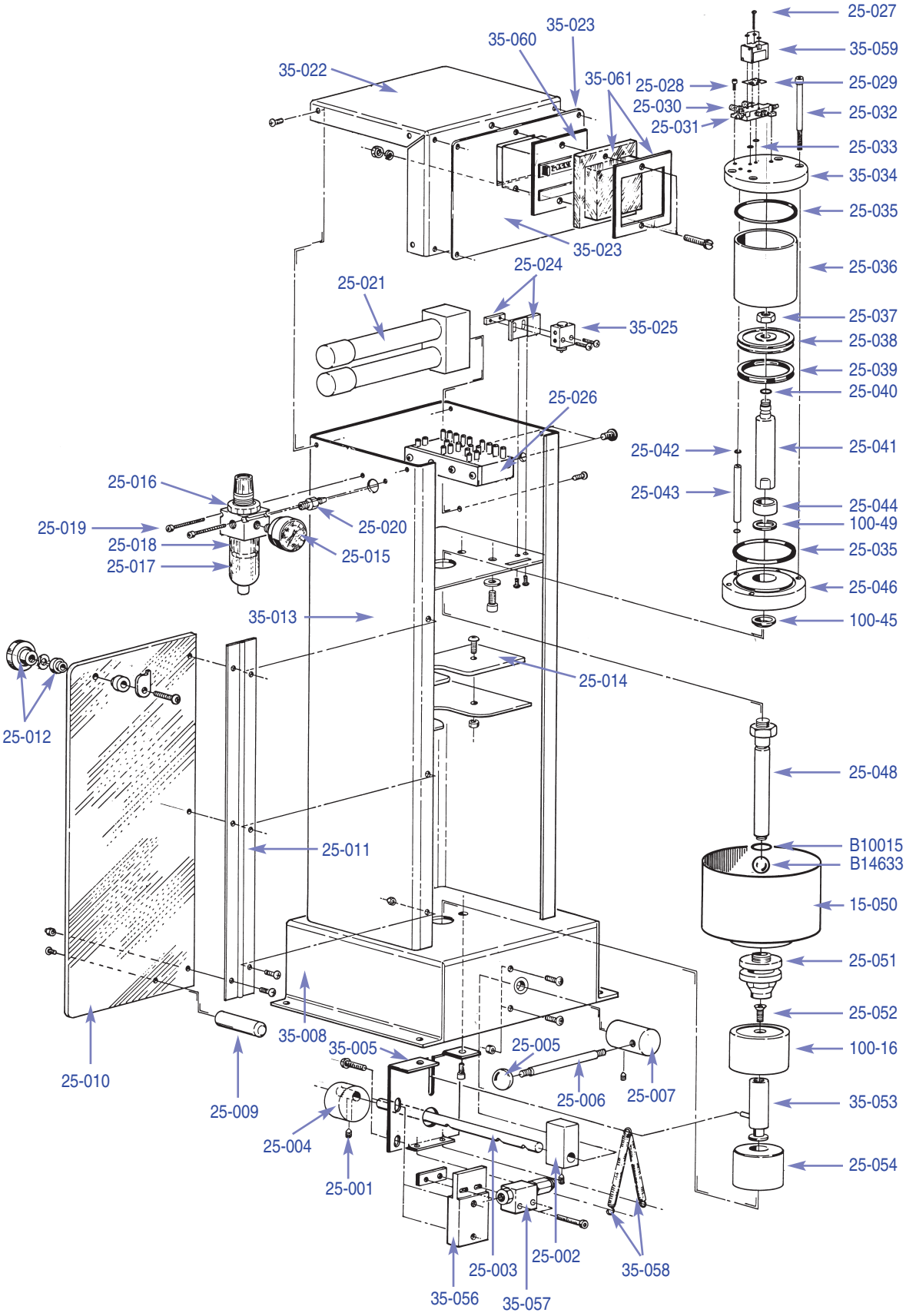
4. Return the reservoir to fill position. Raise can into position.

5. Close door and turn the knob to start the piston in motion.

6. After the can is filled, open the door before lowering the platform. Lower the platform and remove the filled can which is now ready for finishing.

# PARTS DIAGRAM (Omni-Fill® System 35)

25-001 Set screw
25-002 Stop
25-003 Cam Shaft
25-004 Cam
25-005 Handle Ball
25-006 Handle Stem
25-007 Handle Mount
35-008 Base
25-009 Door Interlock
25-010 Door
25-011 Hinge
25-012 Door Latch (Sub. Assy.)
35-013 Cabinet
25-014 Stiffner Plate
25-015 Gage
25-016 Filter Regulator (Includes Bowl & Element)
25-017 Filter Bowl
25-018 Filter Element
25-019 Screw-Mounting (2 Reqd.)
25-020 Fitting (1/8 NPT x 1/8 BARB)
25-021 Air Chamber
35-022 Top Cover
35-023 Identification Plate
25-024 Mounting Brkt. (Includes screws & nut bar)
35-025 Start Valve
25-026 Timing Valve
25-027 Screw-Valve Mount
25-028 Screw-Manifold Mount (2 Reqd.)
25-029 Gasket
25-030 Muffler (2 Reqd.)
25-031 Manifold Block
25-032 Bold, Cylinder Cap (4 Reqd.)
25-033 O-Ring, Manifold Block (2 Reqd.)
35-034 Top Cap Main Cylinder
25-035 O-Ring, Main Cylinder Barrel (2 Reqd.)
25-036 Barrel, Main Cylinder
25-037 Nut
25-038 Piston, Main Cylinder
25-039 Seal, Piston
25-040 O-Ring, Rod to Piston
25-041 Rod, Main Cylinder
25-042 O-Ring, Manifold Tube (2 Reqd.)
25-043 Manifold Tube
25-044 Bushing, Main Cylinder
100-49 Seal, Main Piston Rod
25-046 Bottom Cap, Main Cylinder
100-45 Rod Wiper
25-048 Pump Piston
B10015 O-Ring, Teflon
B14633 Check Ball
15-050 Reservoir, Quart
25-051 Can Receiver
25-052 Screw, Can Platform
100-16 Can Platform
35-053 Platform Shaft (Sub. Assy. Only)
25-054 Support Bushing
35-055 Mount Plate, Safety Valve
35-056 Slide Block, Safety Valve (Includes Screw & Nut Bar)
35-057 Valve, Safety (Includes Ball Actuator)
35-058 Spring, Return (2 Reqd.)
35-059 Valve, Main
35-060 Counter, Digital
35-061 Cover, Counter (Includes Frame)
35-062 Manifold, Line Mounted (not shown)
100-43 Stop Valve (not shown)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25-054
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25-004
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35-056
35-057

# OMNI•FILL® System 15


## THE UNIVERSAL HAND PUMP SYSTEM

**Capable of filling larger quantities of all Omni-Pak® aerosol cans:***

- **Simple to Operate**
- **Convenient**
- **Versatile**


*Omni-Pak® MasterBlend™ EZ TOUCH® requires spacers that are available as accessories.*

## Assembly

**Checklist –** After carefully uncrating, examine the machine for shipping damage. If you find damage, notify your carrier immediately.

Place the Omni-Fill® System 15 on a solid, level surface. We recommend that the unit be mounted to the working surface during operation.The following parts should be included with your unit:

Pressing tool (B14628)
Check balls (B14633)
Piston (25-048)
Reservoir (15-050)
Can Receiver (25-051)
Can Platform (100-16)
Platform Shaft (25-053)

If any part is missing, contact your distributor.

**Note:** Additional parts required:
• Four 1/4" mounting bolts

## Production

1. Install piston with pre-attached O-ring into the cylinder, turn clockwise. As received, the O-ring was sized at the factory during testing. When replacing the O-ring see instructions on page18.

2. Pull handle forward into ready position. The handle will stay in this position until down-ward pressure is applied.

3. Slide 1 qt paint reservoir into place.

*Item B15015*

*MasterBlend™ and One-Blend aerosol cans require a female adapter.

## Production cont.

4. Pull the reservoir as far forward as piston will allow for easier access.

5. Drop the check ball into the reservoir when required.

6. Fill the reservoir with strained, unreduced paint.

7. Return the reservoir to fill position.

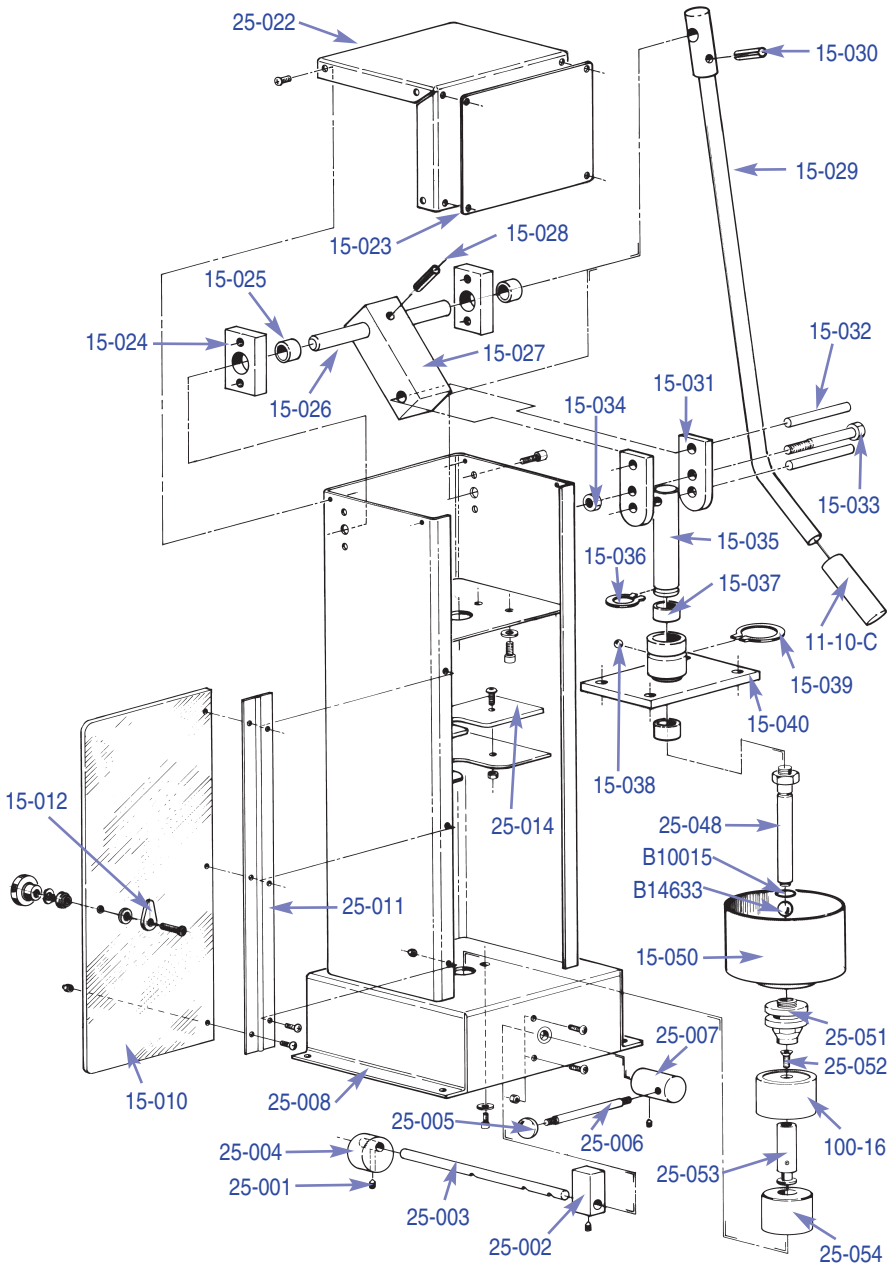
8. Place the proper Omni-Pak® can on the can platform and raise into fill position. Close the door.

9. Pushing the handle front to back, use firm strokes. Slight pause with piston in the up position will allow paint to flow into the fill chamber. Refer to the filling instructions for suggested number of strokes.

# PARTS DIAGRAM (Omni-Fill® System 15)

| | |
|---|---|
| 25-001 | Set screw |
| 25-002 | Stop |
| 25-003 | Cam Shaft |
| 25-004 | Cam |
| 25-005 | Handle Ball |
| 25-006 | Handle Stem |
| 25-007 | Handle Mount |
| 25-008 | Base |
| 15-010 | Door |
| 25-011 | Hinge |
| 15-012 | Knob & Latch (Sub. Assy.) |
| 25-014 | Stiffner Plate |
| 25-022 | Top Cover |
| 15-023 | Identification Plate |
| 15-024 | Bearing Block (2 Reqd.) |
| 15-025 | Bearing (2 Reqd.) |
| 15-026 | Main Shaft |
| 15-027 | Arm |
| 15-028 | Pin (Arm) |
| 15-029 | Handle |
| 15-030 | Pin (Handle) |
| 15-031 | Link (2 Reqd.) |
| 15-032 | Dowel Pin (2 Reqd.) |
| 15-033 | Bolt |
| 15-034 | Locking Nut |
| 15-035 | Driver |
| 15-036 | Ring (Stop) |
| 15-037 | Bushing (2 Reqd.) |
| 15-038 | Ball (Detent) |
| 15-039 | Ring (Spring) |
| 15-040 | Guide Plate |
| 25-048 | Piston |
| B10015 | O-Ring |
| B14633 | Check Ball |
| 15-050 | Reservoir |
| 25-051 | Can Receiver |
| 100-45 | Rod Wiper |
| 25-048 | Pump Piston |
| 25-052 | Screw |
| 100-16 | Can Platform |
| 25-053 | Platform Shaft (Sub-assembly only) |
| 25-054 | Support Bushing |

**Note:** Some parts may be available only as part of a sub-assembly.



# OMNI•FILL® System 11EZ

## THE HAND-OPERATED AEROSOL FILLING SYSTEM

**Ideal for filling the smallest quantities of MasterBlend™ EZ TOUCH®.***

- **Easy to Use**
- **Economical**
- **Low Maintenance**
- **Rugged Construction**



*Item B11011*

## Assembly

**Checklist –** When unpacking the shipping carton, make sure the following items are included:

Cabinet & Base (11-101)
Plastic liners (B14610)
Pressing tool (B14628)
Shoulder Screw 1/4 x 3/4 (11-08)
Lock Nut (11-08A)
Handle (11-10)
Piston (11-12)
Cylinder (11-14)
Check balls (B14633)

## Production

1. Using the enclosed bolt and locknut attach handle to the back of the base. Then tighten with enclosed hex wrench.

2. It is necessary to assemble the handle link to the lug welded to the back of the machine. Before inserting the shoulder screw make sure the handle grip is pointing to the front of the machine toward the operator. The lock nut should be tightened onto the shoulder screw and then backed off 1/4 turn to allow free movement of the handle.

3. Insert liner into the cylinder and place it upside down on work surface.

4. Push any Omni-Pak® EZ TOUCH® can (valve end) into the cylinder with a clockwise twisting motion. This step sizes the liner and must be done each time a new liner is used.

*This unit is not equipped to fill MasterBlend™ or One-Blend cans.

## Production cont.

5. Insert cylinder (with can attached) into the top plate of unit. Push all the way back. Make sure the platform is locked in the proper height slot. Close the door.

6. Drop a check ball into the cylinder. If a check ball is not used, the paint will run out when you remove the can. USE FACTORY SUPPLIED CHECK BALLS ONLY.

## Filling

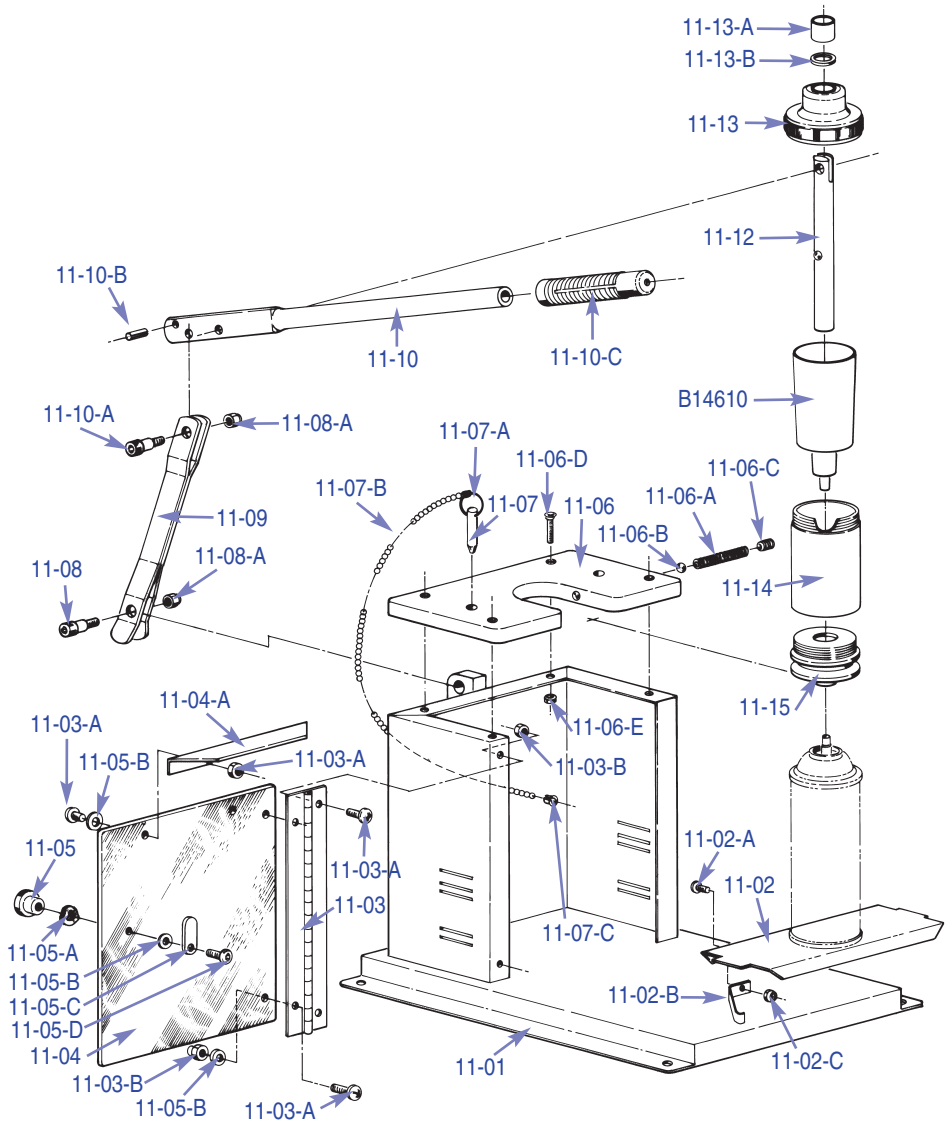
Place the handle in the piston slot. Using the ring pin, align the holes and secure. You are now ready to fill the cans. Pump the paint, using firm strokes. Start with the handle as high as it will go, continuing until the piston hits bottom. Pause between strokes - with the handle up - to allow the paint to drain into the narrow part of the cylinder.

**REFER TO THE FILLING INSTRUCTIONS FOR SUGGESTED NUMBER OF STROKES.**

# PARTS DIAGRAM (Omni-Fill® System 11EZ)

| | |
|---|---|
| 11-01 | Cabinet & Base |
| 11-02 | Can Platform |
| 11-02A | Screw Leaf |
| 11-02B | Spring-Can Platform |
| 11-02C | Nut-Retaining |
| 11-03 | Hinge |
| 11-03A | Screw |
| 11-03B | Nut |
| 11-03C | Washer, Nylon |
| 11-04 | Door |
| 11-04A | Door Splash Shield |
| 11-05 | Knob |
| 11-05A | Spring Washer |
| 11-05B | Spacer Washer |
| 11-05C | Latch |
| 11-05D | Screw |
| 11-06 | Top Plate |
| 11-06A | Spring Coil |
| 11-06B | Ball |
| 11-06C | Screw Spring Retaining |
| 11-06D | Screw Top Plate |
| 11-06E | Nut Top Plate |
| 11-07 | Pin with Ring |
| 11-07A | Coupling |
| 11-07B | Ball Chain |
| 11-07C | Sleeve |
| 11-08 | Shoulder Screw |
| 11-08A | Lock Nut |
| 11-09 | Link Handle |
| 11-10 | Handle |
| 11-10A | Shoulder Screw |
| 11-10B | Roll Pin |
| 11-10C | Handle Grip |
| 11-12 | Piston |
| B14610 | Plastic Liner |
| 11-13 | Top Cap |
| 11-13A | Bushing |
| 11-13B | Wiping Ring |
| 11-14 | Cylinder Barrel |
| 11-15 | Cylinder Bottom |

**Note:** Some parts may be available only as part of a sub-assembly.



OMNI•FILL®

# GENERAL INSTRUCTIONS

## Paint Preparation

Most solvent-based Enamels, Lacquers, Vinyl and Acrylics are suitable for using OMNI-FILL® Custom Aerosol Filling System. Paint must be thoroughly mixed and strained before pouring into the reservoir. Fine mesh strainers (B14634) are furnished with your OMNI-PAK® Custom Aerosol Cans.

Selective water reducible products such as KemAqua® 280 can be aerosolized in a One-Blend formulation. Latex paints cannot be aerosolized. However, One-Blend formula can also be used for packaging solvent-based products.

Some exotic solvent paints (Epoxies, Primers, Catalysts, etc.) may be suitable for filling. If catalyzed, pot life of the product needs to be considered. **WE ALWAYS RECOMMEND TESTING THE FIRST CAN FILLED WITH YOUR MATERIAL BEFORE SETTING UP TO FILL THE ENTIRE BATCH.**

Coarse-grind and dirty materials cannot be OMNI-FILLED. They could cause a BLOWBACK. Some very low gloss (flat) products will work better in a MasterBlend.™ The valve mechanism in a MasterBlend™ EZ TOUCH® is more delicate.

Most enamels should be aerosolized as they are, without thinning. Some lacquers may require reduction with Lacquer Thinner, (5 parts lacquer to 1 part thinner). Always test the first aerosol. If the spray is runny or if it exhibits poor hiding, the product is over-reduced. If you see bubbles in the film, or if the spray is coarse, it requires thinning. Make sure you fill the recommended amount of paint by weight (grams/oz) and adjust accordingly for optimum aerosol package.

## Filling

The number of strokes required to fill a can varies,depending on the weight of the paint you have chosen.

The chart will give you the amount of paint by weight required per can and suggested starting stroke count.

Simply weigh the OMNI-PAK® can, add the suggested number of strokes of your paint and re-weigh the can. The difference in weight is the amount of paint filled. If the fill is short, add one or two strokes and re-check. If the amount of paint is over, try a new can and reduce the stroke count.

Once the stroke count is determined, it is no longer necessary to weigh each can. Stroke repeatability is excellent. It is always a good practice to check the weight fill from time to time to assure a quality product.

In USA the aerosol products are controlled and sold by weight. Some type of scale is a very important part of OMNI-FILL® program.

## Filling Chart

| Part # | Item | Net Wt. | Net Wt. of Solvent/Propellant | Suggested Strokes* (Paint in grams/oz) | Total Package Wt. | Label Wt. |
|---|---|---|---|---|---|---|
| B45106 | DV6 | 6oz | 85gm / 3oz | 6-8 (51gm / 1.8oz) | 136gm / 4.75oz | 128gm / 4.5oz |
| B45112 | DV12 | 12oz | 164gm / 5.8oz | 9-11 (98gm / 3.5oz) | 262gm / 9.25oz | 255gm / 9.0oz |
| B45116 | DV16 | 16oz | 216gm / 7.6oz | 11-13 (130gm / 4.6oz) | 347gm / 12.25oz | 340gm / 12.0oz |
| B45216 | FV16 | 16oz | 216gm / 7.6oz | 11-13 (130gm / 4.6oz) | 347gm / 12.25oz | 340gm / 12.0oz |
| B35316 | AB16 | 16oz | 201gm / 7.1oz | 12-14 (146gm / 5.15oz) | 347gm / 12.25oz | 340gm / 12.0oz |

*Weigh can before and after filling to ensure correct weight.

MasterBlend™ is designed to accommodate most solvent-blend systems. Some lacquers may require reduction with lacquer thinner prior to Omni-Filling. As a starting point, we recommend 5 parts lacquer to 1 part thinner by volume. Always check the first can for application. If the spray is too coarse, additional reduction is in order. Make sure that you Omni-Fill® the specified amount required for the can size of the reduced material for the optimum aerosol package.

## Finishing

To remove a filled can, lower the platform. Wipe any excess paint off the valve stem and affix the actuator.

On MasterBlend™ cans simply insert the actuator stem into the valve opening with twisting motion using light downward pressure.

On MasterBlend™ EZ TOUCH® set the fanspray actuator on top of the valve stem, with the pressing tool provided apply downward pressure. Firm push is required for proper installation. When properly installed the back of the actuator flap should be pointed slightly up. This is very important part of finishing, take a couple of minutes a familiarize yourself with the task.

Shake the can for 20-30 seconds, to thoroughly mix the contents. Turn the can upside down and spray into any waste receptacle until only clear gas comes out. This will clear the valve and dip tube of the paint left in them from the filling process. THIS STEP MUST BE DONE TO KEEP THE AEROSOL FROM CLOGGING. Wipe away any excess paint from the valve actuator orifice and store.

For larger aerosol production valve clearing tool is a wise investment. The valve clearing device enables you to clear the spray mechanism before seating the actuator. It is available for EZ TOUCH® valves part B25217 and also for Female Valve part B35317. The tool can be mounted on a lid that fits a 5 gallon pail. On a larger aerosol production the paint cleared from the valves can be collected and reused, eliminating good part of the waste. To clear the can simply invert the aerosol and insert the valve into the opening of the device. Press the can down firmly for two to five seconds, then wipe the valve and install the actuator.

## Clean-Up

**IMPORTANT! ALWAYS DISCONNECT THE AIR SUPPLY PRIOR TO CLEAN-UP OR ANY OTHER MAINTENANCE.**

Remove piston by turning it right to left. Remove reservoir. Unused paint should be returned to its original container. Be sure to remove the check ball from the mixture before storing. (If you are using the Female Can Adapter there is no check ball. It is built into the adapter.) Use solvent to clean all of the components. Refer to special instructions for cleaning the Female Adapter. Rinse components in clean high flash point or non-flammable solvent before reassembling the units.

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# MAINTENANCE

System 15 and 35 require very little maintenance. Occasionally lift the can platform out of the base and apply a small amount of grease to the bottom surface of the platform shaft.

The TEFLON® O-ring on the tip of the piston is very durable, however, it is subject to wear. A noticeable increase in stroke count indicates that the O-ring is worn and needs to be replaced.

(Teflon is a registered trade mark of E.I. duPont)

## HOW TO INSTALL NEW O-RING

**System 15 and 35**

1. Remove piston by turning it clockwise.
2. Using a sharp knife or razor blade, cut off the existing O-ring from the piston. Clean the groove.
3. Place new O-ring on tip of piston and apply pressure to move the O-ring into the groove.
4. SEE SIZING INSTRUCTIONS.

**System 100**

1. Remove the piston and reservoir.
2. Using a sharp knife or razor blade, cut the existing O-ring from the piston. Clean the groove.
3. Install the piston, and insert the O-ring installation tool into the mid-support plate.
4. Place EZ TOUCH® can on platform and turn switch to “Raise” position.
5. Pace a new O-ring in the space provided on the top of the O-ring installation tool.
6. Set the automatic counter at 1.
7. Close all doors and push the “Start” button. The stroke will force the O-ring onto the piston.
8. Push the “Stop” button to return piston to starting position.

## NEW O-RING SIZING - All models

1. Install piston and empty, clean reservoir (NO PAINT - NO CHECK BALL) into the machine.
2. Insert a can and raise into fill position. Close the door.
3. Cycle the piston for 6 strokes with empty reservoir in place.

**STEP #3 FORMS AND SIZES THE O-RING. IT MAY PRODUCE SLIVERS OF TEFLON. THESE SLIVERS MUST BE REMOVED BY RINSING THE RESERVOIR AND PISTON WITH SOLVENT BEFORE STARTING YOUR CAN PRODUCTION.**

## OMNI-FILL® 10-40 AUTOMATIC STROKE COUNTER


To change the number of strokes, press and hold in the button in the upper left corner. Push the buttons on the bottom to the desired number. Each click changes the number by one stroke. the button in the lower left should always remain set on zero. Once the desired number is visible on the counter, release the top button. You are now ready to fill cans.

After the can is lowered, the counter will automatically reset to the original number. If the machine is stopped with STOP BUTTON during the filling operation, it will resume the count when restarted.

## FEMALE CAN ADAPTER INSTRUCTIONS

The Omni Female Can Adapter (part B15100) is a precision tool designed to fill One-Blend and MasterBlend™ cans. Simply unscrew the can receiver from the paint reservoir on your Omni-Fill® unit and replace it with the adapter. All other aspects of filling the can remain unchanged. **Do not use check ball with female adapter.**

The interior chamber of part B15100 contains a spring and ball check ball. It is important to keep the chamber clean for proper operation. The chamber is easily accessible by unscrewing the bottom with the tool included in this package. The parts can be washed in solvent, or in water, when using water reducibles. Part B15100 will not rust; all parts are made of stainless steel. If changing from water reducible paint to solvent system, it is recommended that you rinse the receiver in acetone to displace any moisture. If this area is not properly cleaned, it can cause a blow back through the paint reservoir.

# OMNI•PAK®

## TROUBLE-SHOOTING

- **PAINT LEAKING IN VALVE CUP DURING THE FILLING OPERATION**
  Improper seat between the valve stem and the can receiver. It is imperative that the contact area in can receiver is clean. Make sure the product is strained. The smallest dirt particle could cause this malfunction. Sometimes a 1/4 turn of the can takes care of the problem. It should also be inspected for any kind of damage in that contact surface.
- **CANS WILL NOT SPRAY - plugging**
  Cans were not cleared after the paint filling operation. Valve clearing prevents clogging and clears the valve.
- **IMPORTANCE OF PROPER CLEARING -**
  Cleaning, wiping off the stem, proper actuator installation. (See pg. 17 for clean-up instructions.)
- **AEROSOLS SEEDING OUT, LOSS OF COLOR, TONE AND GLOSS**
  Choosing the right OMNI-PAK® BLEND (some paint might not be compatible with Omni-Blend). Not enough paint was added when the cans were Omni-Filled.
- **POOR/LOW HIDING**
  - Cans not properly filled, lack of product
  - Low solids material
  - Wrong blend used

## ACCESSORIES

### VALVE CLEARING TOOLS

The valve clearing device enables you to clear the spray mechanism before seating the actuator. This accessory speeds up and simplifies the finishing process when a number of cans are being filled.

- Prevents clogging
- Clears valve stem

*Valve Clearing Tool*

*B25217*
*MasterBlend™ EZ TOUCH®*

*B35317*
*MasterBlend™ & One-Blend*

### FEMALE CAN ADAPTER

For use with One-Blend and MasterBlend™ female aerosol cans.

- Converts Omni-Fill® System 15, 35 and Super 100 for use with One-Blend and MasterBlend™ female cans
- Easy to use, no tools required
- Fast, efficient filling accessory

*B15100 Female Can Adapter*
*(a spanner wrench is included with B15100)*

### ALSO AVAILABLE:

*B14610 Plastic Liner*
*B14628 Pressing Tool*
*B14633 Check Ball*
*(6 pack with O-Ring), not pictured*
*B35318 11EZ Retro Kit*

*B14610*

*B14628*

*B35318*

OMNI•PAK®

## OMNI-PAK® MasterBlend™ & OMNI-PAK® MasterBlend™ EZ TOUCH®

# Material Safety Data Sheet

**MANUFACTURER'S NAME:**
The Sherwin-Williams Company • 101 Prospect Avenue N.W. • Cleveland, OH 44115
**EMERGENCY TELEPHONE NO.:** (216) 566-2917
**DATE OF PREPARATION:** 12-JAN-00

## Section I – PRODUCT IDENTIFICATION

**PRODUCT NUMBER:** B45116, B45112, B45106 & B45216
**HMIS CODES:** Health 2 Flammability 4 Reactivity 0
**PRODUCT NAME:** OMNI-PAK® MasterBlend™ & OMNI-PAK® MasterBlend™ EZ TOUCH®
**PRODUCT CLASS:** Aerosol Specialty Product

## Section II – HAZARDOUS INGREDIENTS

| INGREDIENT<br>CAS No. | % by WT | ACGIH<br>TLV | OSHA<br>PEL | UNITS | V.P. |
|---|---|---|---|---|---|
| Propane<br>74-98-6 | 25 | 2500 | 1000 | PPM | 760.00 |
| Acetone<br>67-64-1 | 65<br>STEL | 500<br>750 | 1000 | PPM<br>PPM | 180.00 |
| Methyl Ethyl Ketone<br>78-93-3 | 9<br>STEL | 200<br>300 | 200<br>300 | PPM<br>PPM | 70.00 |
| Ethyl 3-Ethoxypropionate<br>763-69-9 | 1 | Not Established | | | 1.11 |

## Section III – PHYSICAL DATA

**PRODUCT WEIGHT:** 5.80 lb./gal.
**SPECIFIC GRAVITY:** 0.70
**BOILING POINT:** <0 -342 F
**VOLATILE VOLUME:** 100 %
**EVAPORATION RATE:** Faster than Ether
**VAPOR DENSITY:** Heavier than Air
**MELTING POINT:** N.A.
**SOLUBILITY IN WATER:** N.A.
**VOLATILE WEIGHT:** 35.47 % (less Federally Exempt Solvents)
**HMIS:** 2 4 0

## Section IV – FIRE AND EXPLOSION HAZARD DATA

| | LEL | UEL |
|---|---|---|
| **FLASH POINT:** Propellant < 0 F | 1.0 | 12.8 |

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section V – HEALTH HAZARD DATA

**ROUTES OF EXPOSURE:** Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

**ACUTE HEALTH HAZARDS:**

**EFFECTS OF OVEREXPOSURE:** Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None generally recognized.

**EMERGENCY AND FIRST AID PROCEDURES:**

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED: Get medical attention.

**CHRONIC HEALTH HAZARDS:** No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Methyl Ethyl Ketone may increase the nervous system effects of other solvents. Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

## Section VI – REACTIVITY DATA

**STABILITY:** Stable

**CONDITIONS TO AVOID:** None known.

**INCOMPATIBILITY:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION:** Will not occur

## Section VII – SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition. Ventilate and remove with inert absorbent.

**WASTE DISPOSAL METHOD:** Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

## Section VIII – PROTECTION INFORMATION

**PRECAUTIONS TO BE TAKEN IN USE:** Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

**VENTILATION:** Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION:** If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

**PROTECTIVE GLOVES:** None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

**EYE PROTECTION:** Wear safety spectacles with unperforated sideshields.

## Section IX – PRECAUTIONS

**DOL STORAGE CATEGORY:** 1A

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code: Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

**OTHER PRECAUTIONS:** Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## Section X – OTHER REGULATORY INFORMATION

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:**

| CAS No. | CHEMICAL/COMPOUND | % by WT | % Element |
|---|---|---|---|
| 78-93-3 | Methyl Ethyl Ketone | 9 | |

**CALIFORNIA PROPOSITION 65:**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

OMNI•PAK®

## OMNI-PAK® One-Blend

# Material Safety Data Sheet

**MANUFACTURER'S NAME:**
The Sherwin-Williams Company • 101 Prospect Avenue N.W. • Cleveland, OH 44115
**EMERGENCY TELEPHONE NO.:** (216) 566-2917
**DATE OF PREPARATION:** 17-JAN-00

## Section I – PRODUCT IDENTIFICATION

**PRODUCT NUMBER:** B35316
**HMIS CODES:** Health 2 Flammability 3 Reactivity 0
**PRODUCT NAME:** 35316 OMNI-PAK® One-Blend
**PRODUCT CLASS:** Aerosol Specialty Product

## Section II – HAZARDOUS INGREDIENTS

| INGREDIENT CAS No. | % by WT | ACGIH TLV | OSHA PEL | UNITS | V.P. |
|---|---|---|---|---|---|
| 2-Butoxyethanol 111-76-2 | 7 | 25 | 25 | PPM (Skin) | 0.60 |
| Acetone 67-64-1 | 33 STEL | 500 750 | 1000 | PPM PPM | 180.00 |
| Dimethyl Ether 115-10-6 | 60 | Not Established | | | 760.00 |

## Section III – PHYSICAL DATA

**PRODUCT WEIGHT:** 5.93 lb./gal.
**SPECIFIC GRAVITY:** 0.71
**BOILING POINT:** <0 -343 F
**VOLATILE VOLUME:** 100 %
**EVAPORATION RATE:** Faster than Ether
**VAPOR DENSITY:** Heavier than Air
**MELTING POINT:** N.A.
**SOLUBILITY IN WATER:** N.A.
**VOLATILE WEIGHT:** 67.00 % (less Federally Exempt Solvents)
**HMIS:** 2 3 0

## Section IV – FIRE AND EXPLOSION HAZARD DATA

| | LEL | UEL |
|---|---|---|
| **FLASH POINT:** Propellant < 0 F | 1.1 | 27.0 |

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section V – HEALTH HAZARD DATA

**ROUTES OF EXPOSURE:** Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.
**ACUTE HEALTH HAZARDS:**
**EFFECTS OF OVEREXPOSURE:** Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None generally recognized.

**EMERGENCY AND FIRST AID PROCEDURES:**

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED: Get medical attention.

**CHRONIC HEALTH HAZARDS:** No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary and blood forming systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

## Section VI – REACTIVITY DATA

**STABILITY:** Stable

**CONDITIONS TO AVOID:** None known.

**INCOMPATIBILITY:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION:** Will not occur

## Section VII – SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition. Ventilate and remove with inert absorbent.

**WASTE DISPOSAL METHOD:** Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

## Section VIII – PROTECTION INFORMATION

**PRECAUTIONS TO BE TAKEN IN USE:** Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

**VENTILATION:** Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION:** If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

**PROTECTIVE GLOVES:** None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

**EYE PROTECTION:** Wear safety spectacles with unperforated sideshields.

## Section IX – PRECAUTIONS

**DOL STORAGE CATEGORY:** 1A

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

**OTHER PRECAUTIONS:** Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## Section X – OTHER REGULATORY INFORMATION

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:**

| CAS No. | CHEMICAL/COMPOUND | % by WT | % Element |
|---|---|---|---|
| | Glycol Ethers | 7 | |

**CALIFORNIA PROPOSITION 65: WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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