

# Material Safety Data Sheet

Print Date: 08/15/2010

Revision Date : 08/04/2010

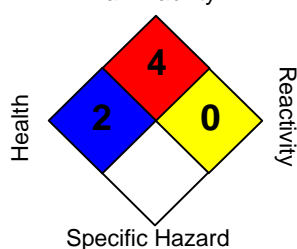
Trade name: **Spray Max 1K Fill Clean System**

Part number:  
3 682 072

Version : 1.1



**NFPA:** Flammability



**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>4</b>
<b>PHYSICAL</b>	<b>0</b>

0 = Insignificant, 1 = Slight, 2 = Moderate,  
3 = High, 4 = Extreme

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Spray Max 1K Fill Clean System  
MSDS Number : 888100006412  
Product Use Description :  
Company : Peter Kwasny Inc.  
510 Broadhollow Road 209  
Melville-NY, 11747  
Telephone : 001-727-363-3047  
Telefax : 001-727-363-0630  
Emergency telephone : 001-352-323-3500  
number

## SECTION 2. HAZARDS IDENTIFICATION

### Emergency Overview

**Regulatory status** : This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

Signal Word : DANGER  
Form : aerosol  
Odour : characteristic  
Odour - Control parameters : no data available  
Hazard Summary : Flammable aerosol  
Compressed gas  
May cause fire.  
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F.

Irritant

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## Potential Health Effects

Eyes : May cause eye irritation.  
Skin : May cause skin irritation.  
Inhalation : Causes respiratory tract irritation.  
Target Organs : Respiratory system  
Eyes  
Skin

Carcinogenicity:

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
CA Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent
dimethyl ether	115-10-6	>= 60 - < 65
acetone	67-64-1	>= 25 - < 35
2-methoxy-1-methylethyl acetate	108-65-6	>= 2 - < 3

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## SECTION 4. FIRST AID MEASURES

- |                |   |  |
|----------------|---|--|
| General advice | : | Move out of dangerous area. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice. Take off all contaminated clothing immediately. |
| Inhalation     | : | Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.                                    |
| Skin contact   | : | Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.  |
| Eye contact    | : | Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.   |
| Ingestion      | : | If swallowed, seek medical advice immediately and show this container or label. If a person vomits when lying on his back, place him in the recovery position. Do NOT induce vomiting.                 |

## SECTION 5. FIRE-FIGHTING MEASURES

- |  |   |  |
|--|---|--|
| Form   | : | aerosol  |
| Ignition temperature   | : | 235 °C (455 °F)  |
| Lower explosion limit  | : | 2.6 %(V)   |
| Upper explosion limit  | : | 18.6 %(V)  |
| Suitable extinguishing media                                   | : | Carbon dioxide (CO2)<br>Dry chemical<br>Water spray jet<br>Alcohol-resistant foam  |
| Extinguishing media which shall not be used for safety reasons | : | High volume water jet  |
| Specific hazards during fire fighting                          | : | Fire will produce dense black smoke containing hazardous combustion products (see section 10).<br>Do not use a solid water stream as it may scatter and spread fire. |
| Special protective equipment for fire-fighters                 | : | In the event of fire, wear self-contained breathing apparatus.   |
| Further information  | : | Vapours may form explosive mixture with air.   |

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In the event of fire and/or explosion do not breathe fumes.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use water spray to cool unopened containers.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ventilate the area.  
Remove all sources of ignition.  
Avoid inhalation of vapour or mist.  
Refer to protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas.
- Environmental precautions : Should not be released into the environment.  
Avoid subsoil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

## SECTION 7. HANDLING AND STORAGE

### Handling

- Handling : Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.  
Do not spray on a naked flame or any other incandescent material.  
Use only in well-ventilated areas.  
For personal protection see section 8.
- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.  
Do not smoke.  
Vapours may form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.

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Electrical equipment should be protected to the appropriate standard.

Dust explosion class : not applicable

## Storage

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C / 122 °F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Please observe the storage instructions for aerosols!

Advice on common storage : Keep away from food, drink and animal feedingstuffs.  
Keep away from oxidising agents and strongly acid or alkaline materials.  
Keep away from combustible materials.

Other data : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
dimethyl ether	115-10-6	CA BC OEL	TWA	1,000 ppm	2006-11-29
acetone	67-64-1	CA AB OEL	TWA	500 ppm 1,200 mg/m3	2009-04-30
		CA AB OEL	STEL	750 ppm 1,800 mg/m3	2009-04-30
		CA BC OEL	TWA	250 ppm	2006-11-29
		CA BC OEL	STEL	500 ppm	2006-11-29
		CA ON OEL	TWAEV	500 ppm	2005-12-17
		CA ON OEL	STEV	750 ppm	2005-12-17
		CA QC OEL	TWAEV	500 ppm 1,190 mg/m3	2006-12-29
		CA QC OEL	STEV	1,000 ppm 2,380 mg/m3	2006-12-29
2-methoxy-1-methylethyl acetate	108-65-6	CA BC OEL	TWA	50 ppm	2006-11-29
		CA BC OEL	STEL	75 ppm	2006-11-29
		CA ON OEL	TWAEV	50 ppm 270 mg/m3	2005-12-17

Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.

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Vapours are heavier than air and may spread along floors.

- Eye protection : Tightly fitting safety goggles
- Hand protection : Nitrile rubber  
Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.  
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : impervious clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Do not inhale aerosol.  
When using do not eat, drink or smoke.  
Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and at the end of workday.  
Wash contaminated clothing before re-use.  
Handle in accordance with good industrial hygiene and safety practice.  
General industrial hygiene practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : aerosol
- Odour : characteristic
- Ignition temperature : 235 °C (455 °F)
- Thermal decomposition : Heating can release hazardous gases., Fire or intense heat may cause violent rupture of packages.
- Lower explosion limit : 2.6 %(V)
- Upper explosion limit : 18.6 %(V)
- Melting point/range : not determined
- Boiling point/boiling range : not applicable

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Vapour pressure	: 3,400 hPa at 20 °C (68 °F)
Density	: not determined
Water solubility	: completely miscible
Volatile organic compounds (VOC) content	: 66.04 %

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## SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.
Thermal decomposition	: Heating can release hazardous gases. Fire or intense heat may cause violent rupture of packages.
Hazardous reactions	: Vapours may form explosive mixture with air. Note: No decomposition if used as directed.

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## SECTION 11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity	: Irritating to respiratory system.
Skin irritation	: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
Eye irritation	: The liquid splashed in the eyes may cause irritation and reversible damage. Strong lachrymation can make it difficult to escape.
Carcinogenicity	: No data is available on the product itself.
Reproductive toxicity	: No data is available on the product itself.
Teratogenicity	: No data is available on the product itself.
Further information	: Symptoms of overexposure may be headache, dizziness,

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tiredness, nausea and vomiting.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
Even the smallest quantities that enter into the lung due to swallowing or subsequent vomiting can lead to a pulmonary oedema or pneumonia.  
Vapours may cause drowsiness and dizziness.

## Component:

dimethyl ether

115-10-6

Acute inhalation toxicity: LC50 rat  
Dose: 309 mg/l  
Exposure time: 4 h

Acute inhalation toxicity: LC50 rat  
Exposure time: 4 h

acetone

67-64-1

Acute oral toxicity: LD50 rat  
Dose: 5,800 mg/kg

Acute dermal toxicity: LD50 rabbit  
Dose: 20,000 mg/kg

Acute inhalation toxicity: LC50 rat  
Dose: 70 mg/l  
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.  
Result: Mild skin irritation  
Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.  
Eye irritation: Classification: Irritating to eyes.  
Result: Moderate eye irritation

2-methoxy-1-methylethyl acetate

108-65-6

Acute oral toxicity: LD50 mouse  
Dose: 8,532 mg/kg

Acute dermal toxicity: LD50 rabbit  
Dose: 7,500 mg/kg

Eye irritation: Classification: Irritating to eyes.  
Result: Mild eye irritation

## SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound : not included  
halogens (AOX)



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Volatile organic compounds (VOC) content : 66.04 %

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

## Component:

acetone

67-64-1

### Toxicity to fish:

LC50

Species: *Oncorhynchus mykiss* (rainbow trout)

Dose: 5,540 mg/l

Exposure time: 96 h

### Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: *Daphnia magna* (Water flea)

Dose: 6,100 mg/l

Exposure time: 48 h

## SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.  
Do not empty into drains; dispose of this material and its container in a safe way.  
Please ensure aerosol cans are sprayed completely empty (including propellant)  
Containers that have not been emptied in compliance with regulations are regarded as hazardous waste.

## SECTION 14. TRANSPORT INFORMATION

### DOT 49 CFR

Proper shipping name : Aerosols  
ID No : UN 1950  
Class : 2.1  
Packing group :  
Labels : 2.1  
Emergency Response : 126  
Guidebook Number

### TDGR

Proper shipping name : AEROSOLS  
ID No : UN 1950

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Class	: 2.1
Packing group	:
Labels	: 2.1
Emergency Response	: 126
Guidebook Number	

## ICAO / IATA-DGR

ID No	: UN 1950
Description of the goods	: Aerosols, flammable
Class	: 2.1
ICAO-Labels	: 2.1
Packing instruction (cargo aircraft)	: 203
Packing instruction (passenger aircraft)	: 203
Packing instruction (passenger aircraft)	: Y203

## IMDG-Code

ID No	: UN 1950
Description of the goods	: AEROSOLS
Class	: 2.1
IMDG-Labels	: 2.1
EmS Number 1	: F-D
EmS Number 2	: S-U
Marine pollutant	: no

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## SECTION 15. REGULATORY INFORMATION

**TSCA Status** : On TSCA Inventory

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**WHMIS Classification** : D2B Toxic Material Causing Other Toxic Effects  
Moderate skin irritant  
Moderate respiratory irritant  
Moderate eye irritant

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B5 Flammable aerosol  
Flammable aerosol

A Compressed Gas  
Compressed Gas

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## SECTION 16. OTHER INFORMATION

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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