Material Safety Data Sheet

Print Date: 08/15/2010 Revision Date : 08/12/2010

Trade name: **Spray Max 2K Fill Clean System**

Part number:
3 680 085

Version : 1.1

NFPA:

HMIS III:

HEALTH	2
FLAMMABILITY	4
PHYSICAL	0

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

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Spray Max 2K Fill Clean System
MSDS Number	:	888100006496
Product Use Description	:	Two-pack performance coatings
Company	:	Peter Kwasny Inc. 510 Broadhollow Road 209 Melville-NY, 11747
Telephone	:	001-727-363-3047
Telefax	:	001-727-363-0630
Emergency telephone number	:	001-352-323-3500

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 May cause birth defects. May cause cancer. Compressed gas May cause fire. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F.

Irritant
Sensitiser

Potential Health Effects

Inhalation	:	May cause allergic respiratory reaction. Causes respiratory tract irritation.
Eyes	:	May cause eye irritation.
Skin	:	May cause allergic skin reaction. May cause skin irritation.
Chronic Exposure	:	Repeated absorption may result in bladder tumors. Suspect reproductive hazard - contains material which may injure unborn child.
Target Organs	:	Respiratory system Eyes Skin

Carcinogenicity:

ACGIH	:	ethylbenzene (CAS-No.: 100-41-4)
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	:	ethylbenzene (CAS-No.: 100-41-4)
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	:	WARNING! This product contains a chemical known to the State of California to cause cancer.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent

dimethyl ether	115-10-6	>= 60 - < 65
Hexamethylene-di-isocyanate, polymer	28182-81-2	>= 15 - < 20
ethyl acetate	141-78-6	>= 7 - < 10
n-butyl acetate	123-86-4	>= 7 - < 10
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	>= 3 - < 5
xylene	1330-20-7	>= 2 - < 3
low boiling point naphtha - unspecified	64742-95-6	>= 1 - < 1.5
1,2,4-trimethylbenzene	95-63-6	>= 1 - < 1.5
ethylbenzene	100-41-4	>= 0.5 - < 0.75

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 a person vomits when lying on his back, place him in the recovery position. If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

SECTION 5. FIRE-FIGHTING MEASURES

Form : aerosol

Ignition temperature : 235 °C (455 °F)

Lower explosion limit : 3 %(V)

Upper explosion limit : 18.6 %(V)

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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). Do not use a solid water stream as it may scatter and spread fire.
Special protective equipment for fire-fighters	:	Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Vapours may form explosive mixture with air. Exposure to decomposition products may be a hazard to health. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Ventilate the area. Remove all sources of ignition. Avoid inhalation of vapour or mist. Wear personal protective equipment. Refer to protective measures listed in sections 7 and 8. Immediately 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. Clean contaminated surface thoroughly. Do not flush with water.

SECTION 7. HANDLING AND STORAGE

Handling

Handling	:	Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Limit the stocks at work place. Do not spray on a naked flame or any other incandescent material. Use only in well-ventilated areas. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. 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. 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! Keep container tightly closed in a dry and well-ventilated place.
Advice on common storage	:	Keep away from food, drink and animal feedingstuffs. Keep away from oxidising agents and strongly acid or alkaline 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
ethyl acetate	141-78-6	CA AB OEL	TWA	400 ppm 1,440 mg/m3	2007-01-01
		CA BC OEL	TWA	150 ppm	2006-11-29
		CA ON OEL	TWAEV	400 ppm 1,440 mg/m3	2005-12-17
		CA QC OEL	TWAEV	400 ppm 1,440 mg/m3	2006-12-29
n-butyl acetate	123-86-4	CA AB OEL	STEL	200 ppm 950 mg/m3	2007-01-01
		CA AB OEL	TWA	150 ppm 713 mg/m3	2007-01-01
		CA BC OEL	TWA	20 ppm	2006-11-29
		CA ON OEL	TWAEV	150 ppm 710 mg/m3	2005-12-17
		CA ON OEL	STEV	200 ppm 950 mg/m3	2005-12-17
		CA QC OEL	TWAEV	150 ppm 713 mg/m3	2006-12-29
		CA QC OEL	STEV	200 ppm 950 mg/m3	2006-12-29
xylene	1330-20-7	CA ON OEL	TWAEV	100 ppm 435 mg/m3	2005-12-17
		CA ON OEL	STEV	150 ppm 650 mg/m3	2005-12-17
		CA AB OEL	TWA	100 ppm 434 mg/m3	2009-04-30
		CA AB OEL	STEL	150 ppm 651 mg/m3	2009-04-30
		CA QC OEL	TWAEV	100 ppm 434 mg/m3	2008-02-23
		CA QC OEL	STEV	150 ppm 651 mg/m3	2008-02-23
		CA BC OEL	TWA	100 ppm	2007-07-06
		CA BC OEL	STEL	150 ppm	2007-07-06
1,2,4-trimethylbenzene	95-63-6	CA BC OEL	TWA	25 ppm	2006-11-29
		CA ON OEL	TWAEV	25 ppm 123 mg/m3	2005-12-17

Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms. Maintain air concentrations below occupational exposure standards.

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	:	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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	:	3 %(V)
Upper explosion limit	:	18.6 %(V)
Melting point/range	:	not determined
Boiling point/boiling range	:	not applicable
Vapour pressure	:	3,400 hPa at 20 °C (68 °F)

Density	:	not determined
Water solubility	:	immiscible
Volatile organic compounds (VOC) content	:	84.17 %

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 oxides
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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity	:	Irritating to respiratory system. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.
Skin irritation	:	Irritating to skin.
Eye irritation	:	Irritating to eyes.
Sensitisation	:	May cause sensitization by inhalation and skin contact.
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, tiredness, nausea and vomiting. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Liver and kidney injuries may occur.

Even the smallest quantities that enter into the lung due to swallowing or subsequent vomiting can lead to a pulmonary oedema or pneumonia.

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
Hexamethylene-di-isocyanate, polymer	28182-81-2	Acute oral toxicity: LD50 rat Dose: > 10,000 mg/kg Acute inhalation toxicity: LD50 rat Dose: 0.1 - 1.2 g/m3 Exposure time: 4 h Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition. Sensitisation: May cause sensitization by inhalation. May cause sensitization by skin contact.
ethyl acetate	141-78-6	Acute oral toxicity: LD50 rat Dose: 5,620 mg/kg Acute dermal toxicity: LD50 rabbit Dose: > 18,000 mg/kg Acute inhalation toxicity: LC50 rat Dose: 1,600 mg/l Exposure time: 8 h Skin irritation: Classification: No skin irritation Result: No skin irritation Eye irritation: Classification: No eye irritation Result: No eye irritation
n-butyl acetate	123-86-4	Acute oral toxicity: LD50 rat Dose: 13,100 mg/kg Acute dermal toxicity: LD50 rabbit Dose: > 14,100 mg/kg Acute inhalation toxicity: LC50 rat Dose: 21 mg/l Exposure time: 4 h Skin irritation: Result: Mild skin irritation Eye irritation: Result: Mild eye irritation

xylene	1330-20-7	Acute oral toxicity: LD50 rat Dose: 2,840 mg/kg Acute dermal toxicity: LD50 rabbit Dose: ca. 4,500 mg/kg Acute inhalation toxicity: LC50 rat Dose: 28 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation Teratogenicity: Damage to fetus cannot be excluded.
low boiling point naphtha - unspecified	64742-95-6	Acute oral toxicity: LD50 rat Dose: 6,800 mg/kg Acute dermal toxicity: LD50 rat Dose: > 3,400 mg/kg Acute inhalation toxicity: Irritating to respiratory system. Skin irritation: Result: Mild skin irritation
1,2,4-trimethylbenzene	95-63-6	Acute inhalation toxicity: LC50 rat Dose: 18 mg/l Exposure time: 4 h Irritating to respiratory system. Skin irritation: Classification: Irritating to skin. Result: Skin irritation Eye irritation: Classification: Irritating to eyes. Result: Eye irritation
ethylbenzene	100-41-4	Acute oral toxicity: LD50 rat Dose: 3,500 mg/kg Acute dermal toxicity: LD50 rabbit Dose: 15,500 mg/kg Acute inhalation toxicity: LC50 rat Dose: 18 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Eye irritation: Classification: Irritating to eyes. Result: Eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound halogens (AOX)	:	not included
Volatile organic compounds (VOC) content	:	84.17 %
Additional ecological information	:	The product should not be allowed to enter drains, water courses or the soil.

Component:

ethyl acetate	141-78-6	Toxicity to fish: LC50 Species: Pimephales promelas (fathead minnow) Dose: 230 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 717 mg/l Exposure time: 48 h Toxicity to bacteria: EC10 Species: Pseudomonas putida Dose: 2,900 mg/l Exposure time: 16 h
n-butyl acetate	123-86-4	Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 72.8 mg/l Exposure time: 24 h Toxicity to bacteria: EC50 Species: Pseudomonas putida Dose: 959 mg/l Exposure time: 18 h
xylene	1330-20-7	Toxicity to fish: LC50 Species: Oncorhynchus mykiss (rainbow trout) Dose: 8.2 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates:

		EC50 Species: Daphnia magna (Water flea) Dose: 75.5 mg/l Exposure time: 24 h
1,2,4-trimethylbenzene	95-63-6	Toxicity to fish: LC50 Species: Pimephales promelas (fathead minnow) Dose: 7.72 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia Dose: 3.6 mg/l Exposure time: 48 h
ethylbenzene	100-41-4	Toxicity to fish: LC50 Species: Carassius auratus (goldfish) Dose: 94.44 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates: LC50 Species: Daphnia magna (Water flea) Dose: 77 mg/l Exposure time: 24 h Toxicity to algae: EC50 Species: Chlorella vulgaris (Fresh water algae) Dose: 63 mg/l Exposure time: 3 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
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 Guidebook Number	:	126

DOT 49 CFR

Regulation	:	Can be shipped as consumer commodity.

TDGR

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

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 Limited quantity, class 2 (Chapter 3.4, SP 277)

SECTION 15. REGULATORY INFORMATION

TSCA Status	:	On TSCA Inventory

DSL Status	:	All components of this product are on the Canadian DSL list.
California Prop. 65	:	WARNING! This product contains a chemical known to the State of California to cause cancer.
WHMIS Classification	:	B5 Flammable aerosol Flammable aerosol A Compressed Gas Compressed Gas D2A Very Toxic Material Causing Other Toxic Effects D2B Toxic Material Causing Other Toxic Effects Teratogen Carcinogen Respiratory sensitiser Moderate skin irritant Moderate respiratory irritant Moderate eye irritant Skin sensitiser

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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Version : 1.1

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