

1 Identification of substance**Product details****Trade name:** GRACE Paver Seal SB**MSDS ID Number:** MP-90325**Replaces MSDS ID Number:** MP-90264**Manufacturer/Supplier:**

W.R. Grace & Co. -Conn.
62 Whittemore Avenue
Cambridge, MA 02140 USA

Grace Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: 1-617-876-1400 (24 hours)
1-800-354-5414 (8AM - 5PM)
CAN: 1-905-683-8561 (24 hours)

Transport Emergency: Chemtrec 1-800-424-9300 (24 hours)**2 Composition/Data on components****Chemical characterization****Description:** Mixture of the substances listed below with nonhazardous additions.

Hazardous components:			
1330-20-7	Xylene	Xn; R 10-20/21-38	30-50%
	Acrylic resin, granular	Xi; R 36/37/38	10-20%
108-88-3	Toluene	Xn, F; R 11-20	10-20%
100-41-4	Ethylbenzene	Xn, F; R 11-20	10-20%
64742-95-6	Solvent naphtha (petroleum), light aromatic	Xn, F; R 11-65-67	5.0-10.0%
95-63-6	1,2,4-Trimethylbenzene	Xn, N; R 10-20-36/37/38-51/53	2.0-5.0%
108-67-8	1,3,5-trimethylbenzene	Xi, N; R 10-37-51/53	0.0-1.0%
98-82-8	Isopropylbenzene	Xn, N; R 10-37-51/53-65	0.0-1.0%

Additional information: For the wording of the listed risk phrases refer to section 16.**3 Hazards identification****Hazard description:**

Xn Harmful
F Highly flammable

Information pertaining to particular dangers for man and environment:

Review information in this MSDS and product label prior to use.
Highly flammable.
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.

Material Safety Data Sheet

Printing date 10/08/2003

Reviewed on 11/10/2004

Trade name: GRACE Paver Seal SB

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

(Cont. from page 1)

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

Health = 3
 Fire = 3
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *3
 Fire = 3
 Reactivity = 0

4 First aid measures**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

After swallowing: Do not induce vomiting; immediately call for medical help.**5 Fire fighting measures****Suitable extinguishing agents:**CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.**6 Accidental release measures****Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.**Measures for environmental protection:** Prevent seepage into sewage system, workpits and cellars.**Measures for cleaning/collecting:**

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

(Cont. on page 3)

USA

Material Safety Data Sheet

Printing date 10/08/2003

Reviewed on 11/10/2004

Trade name: GRACE Paver Seal SB

Dispose contaminated material as waste according to section 13 of the MSDS.

(Cont. from page 2)

7 Handling and storage**Handling:****Information for safe handling:**

Open and handle receptacle with care.

Flammable mixtures with air can be formed in emptied containers. Do not puncture, cut, drill, heat or weld uncleaned drums.

Information about protection against explosions and fires:

Use only in explosion protected area.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Use only with adequate ventilation. Forced ventilation is necessary in pits and poorly ventilated areas.

Empty containers may retain hazardous residue, both liquid and vapor. Do not cut, drill, grind or weld on or near container, whether empty or full.

Storage:**Requirements to be met by storerooms and receptacles:** Store in a cool location.**Information about storage in one common storage facility:**

Keep ignition sources away - Do not smoke.

Use only in explosion protected area.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Further information about storage conditions: None.**8 Exposure controls and personal protection****Additional information about design of technical systems:** No further data; see item 7.**Components with limit values that require monitoring at the workplace:****1330-20-7 Xylene**

PEL	435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	(o-, m-, & p-isomers) Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

108-88-3 Toluene

PEL	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	188 mg/m ³ , 50 ppm Skin; BEI

(Cont. on page 4)

USA

Material Safety Data Sheet

Printing date 10/08/2003

Reviewed on 11/10/2004

Trade name: **GRACE Paver Seal SB**

(Cont. from page 3)

100-41-4 Ethylbenzene

PEL	435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 543 mg/m ³ , 125 ppm Long-term value: 434 mg/m ³ , 100 ppm
BEI	

Additional information: The lists that were valid during the creation were used as basis.

Personal protective equipment:**General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Breathing equipment:

A chemical cartridge respirator with organic vapor cartridge is required. A dust/mist cartridge or prefilter may be needed in addition to control exposure to mist. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

Protection of hands:

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves

Gloves should be impermeable and resistant to the product. Selection of material should be considered before use.

Eye protection:

Tightly sealed goggles

Face protection

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

Body protection: Protective work clothing

9 Physical and chemical properties**General Information**

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	110°C (230°F)

Flash point: < 10°C (< 50°F)

Ignition temperature: 393.0°C (739°F)

Auto igniting: Product is not selfigniting.

(Cont. on page 5)

USA

Material Safety Data Sheet

Printing date 10/08/2003

Reviewed on 11/10/2004

Trade name: **GRACE Paver Seal SB**

(Cont. from page 4)

Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	0.9 Vol %
Upper:	8.0 Vol %
Maximum VOC:	82.00 %
Vapor pressure at 20°C (68°F):	29.0 hPa (22 mm Hg)
Density:	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

10 Stability and reactivity

Thermal decomposition: No decomposition if used according to specifications.

Dangerous products of decomposition:

Hydrocarbons

Carbon monoxide and carbon dioxide

Other potentially hazardous products may also be formed.

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

11 Toxicological information**Acute toxicity:****LD/LC50 values that are relevant for classification:****1330-20-7 Xylene**

Dermal LD50 2000 mg/kg (rbt)

Inhalative LC50/4 h 6350 mg/l (rat)

Acrylic resin, granular

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >3000 mg/kg (rabbit)

108-88-3 Toluene

Oral LD50 5000 mg/kg (rat)

Dermal LD50 12124 mg/kg (rabbit)

Inhalative LC50/4 h 5320 mg/l (mus)

100-41-4 Ethylbenzene

Oral LD50 3500 mg/kg (rat)

Dermal LD50 17800 mg/kg (rbt)

98-82-8 Isopropylbenzene

Oral LD50 1400 mg/kg (rat)

Dermal LD50 12300 mg/kg (rbt)

Inhalative LC50/4 h 24.7 mg/l (mus)

(Cont. on page 6)

USA

Material Safety Data Sheet

Printing date 10/08/2003

Reviewed on 11/10/2004

Trade name: **GRACE Paver Seal SB**

(Cont. from page 5)

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Additional toxicological information:**

Harmful

Irritant

Over exposure by inhalation or ingestion may be fatal. Chemicals contained in this product can affect the skin, heart, brain, liver, kidneys, lungs and spleen. Some harmful effects are also possible through skin absorption.

12 Ecological information**Ecotoxicological effects:****Remark:** Harmful to fish**General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

13 Disposal considerations**Product:**

Comply with Federal, State, and local regulations

Waste product is defined as hazardous by US EPA due to ignitability (D001).

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information****DOT regulations:****Hazard class:** 3**Identification number:** UN1263**Packing group:** II**Proper shipping name (technical name):** Paint

(Cont. on page 7)

USA

Material Safety Data Sheet

Printing date 10/08/2003

Reviewed on 11/10/2004

Trade name: **GRACE Paver Seal SB**

(Cont. from page 6)

Label 3

Land transport ADR/RID (cross-border):

ADR/RID class: 3 Flammable liquids
Item: 5b
Danger code (Kemler): 33
UN-Number: 1263
Description of goods: Paint

Maritime transport IMDG:

IMDG Class: 3.2
Page: 3268
UN Number: 1263
Label 3
Packaging group: II
EMS Number: F-E,S-E
MFAG: 310,313
Marine pollutant: No
Proper shipping name: Paint

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: II
Proper shipping name: Paint

USA

(Cont. on page 8)

Trade name: GRACE Paver Seal SB

(Cont. from page 7)

15 Regulations

SARA (Superfund Amendments and Reauthorization Act)

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (specific toxic chemical listings):

1330-20-7	Xylene
108-88-3	Toluene
100-41-4	Ethylbenzene
95-63-6	1,2,4-Trimethylbenzene
98-82-8	Isopropylbenzene

TSCA (Toxic Substances Control Act):

All ingredients are listed.

WHMIS Classification(s):



CEPA (Canadian DSL):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

71-43-2	Benzene
---------	---------

Chemicals known to cause reproductive toxicity:

108-88-3	Toluene
71-43-2	Benzene

Carcinogenicity categories

EPA (Environmental Protection Agency)

1330-20-7	Xylene	D
108-88-3	Toluene	D
100-41-4	Ethylbenzene	D
98-82-8	Isopropylbenzene	D;CBD

IARC (International Agency for Research on Cancer)

1330-20-7	Xylene	3
108-88-3	Toluene	3
100-41-4	Ethylbenzene	2B

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

1330-20-7	Xylene	A4
108-88-3	Toluene	A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Cont. on page 9)

Material Safety Data Sheet

Printing date 10/08/2003

Reviewed on 11/10/2004

Trade name: **GRACE Paver Seal SB**

(Cont. from page 8)

National Volatile Organic Emission Standards for Architectural Coatings:

Volatile Organic Content: 762.0 g/L

Product related hazard informations:**Hazard symbols:**

Xn Harmful
F Highly flammable

Hazard-determining components of labelling:

Xylene
Toluene

Risk phrases:

Highly flammable.
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

Keep out of the reach of children.
Keep container in a well-ventilated place.
Keep away from food, drink and animal feedingstuffs.
Keep away from sources of ignition - No smoking.
When using do not smoke.
Avoid contact with eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point
Take precautionary measures against static discharges.
Wear suitable protective clothing and gloves.
In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
If swallowed, seek medical advice immediately and show this container or label.
Not recommended for interior use on large surface areas.
This material and its container must be disposed of as hazardous waste.
If swallowed, rinse mouth with water (only if the person is conscious)

16 Other information

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

USA