

## 1 Identification of substance

### Product details

**Trade name:** Pieri Release 444 □

**MSDS ID Number:** D-05967 (Replaces MSDS:D-05639)

**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.

<b>Hazardous components:</b>			
8052-41-3	Stoddard solvent	Xn, F; R 11-20/21-36-53-65-66-67	50-100%
108-67-8	1,3,5-trimethylbenzene	Xi, N; R 10-37-51/53	2.0-5.0%
95-63-6	1,2,4-trimethylbenzene	Xn, N; R 10-20-36/37/38-51/53	2.0-5.0%
1330-20-7	Xylene	Xn; R 10-20/21-38	2.0-5.0%
100-41-4	Ethylbenzene	Xn, F; R 11-20	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:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
Review information in this MSDS and product label prior to use.  
Highly flammable.  
Harmful by inhalation and in contact with skin.  
Irritating to eyes.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
Repeated exposure may cause skin dryness or cracking

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**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:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** Wear self-contained respiratory protective device.

**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:**

Sweep up spilled product into receptacles.

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

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

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**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.

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:****8052-41-3 Stoddard solvent**

PEL	2900 mg/m <sup>3</sup> , 500 ppm
REL	Short-term value: C 1800* mg/m <sup>3</sup> Long-term value: 350 mg/m <sup>3</sup> *15-min
TLV	525 mg/m <sup>3</sup> , 100 ppm

**1330-20-7 Xylene**

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

Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**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**

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	157°C (315°F)

<b>Flash point:</b>	8°C (46°F)
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<b>Ignition temperature:</b>	230.0°C (446°F)
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<b>Auto igniting:</b>	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
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**Explosion limits:**

<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	6.0 Vol %

<b>Maximum VOC:</b>	95.00 %
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<b>Density:</b>	Not determined.
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**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:**

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)

**100-41-4 Ethylbenzene**

Oral LD50 3500 mg/kg (rat)

Dermal LD50 17800 mg/kg (rbt)

**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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Harmful to aquatic organisms

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**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:**

<b>Hazard class:</b>	3
<b>Identification number:</b>	UN3295
<b>Packing group:</b>	II
<b>Proper shipping name (technical name):</b>	Hydrocarbons, liquid, n.o.s., contains turpentine substitute, xylenes
<b>Label</b>	3

**Land transport ADR/RID (cross-border):**

<b>ADR/RID class:</b>	3 Flammable liquids
<b>Item:</b>	31c
<b>Danger code (Kemler):</b>	30
<b>UN-Number:</b>	3295
<b>Description of goods:</b>	Hydrocarbons, liquid, n.o.s., contains turpentine substitute, xylenes

**Maritime transport IMDG:**

<b>IMDG Class:</b>	3.3
<b>Page:</b>	3352
<b>UN Number:</b>	3295
<b>Label</b>	3

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**Packaging group:** II  
**EMS Number:** F-E,S-D  
**MFAG:** 310  
**Marine pollutant:** No  
**Proper shipping name:** Hydrocarbons, liquid, n.o.s., contains turpentine substitute, xylenes

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** 3  
**UN/ID Number:** 3295  
**Label:** 3  
**Packaging group:** II  
**Proper shipping name:** Hydrocarbons, liquid, n.o.s., contains turpentine substitute, xylenes

**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):**

95-63-6	1,2,4-trimethylbenzene
1330-20-7	Xylene
100-41-4	Ethylbenzene

**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:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

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**Carcinogenicity categories****EPA (Environmental Protection Agency)**

1330-20-7	Xylene	D
100-41-4	Ethylbenzene	D

**IARC (International Agency for Research on Cancer)**

1330-20-7	Xylene	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
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**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.

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

Xn Harmful  
F Highly flammable

**Hazard-determining components of labelling:**

Stoddard solvent

**Risk phrases:**

Highly flammable.

Harmful by inhalation and in contact with skin.

Irritating to eyes.

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

Repeated exposure may cause skin dryness or cracking

**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.

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)

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**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