

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** SS4255 55G-Drum (450.0LBS-204.30KG)

**Other means of identification**

**Synonyms:** Silicone Resin Solution

**Recommended use and restriction on use**

**Recommended use:** Mixture

**Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information :** Momentive Performance Materials LLC  
260 Hudson River Road  
Waterford NY 12188

**Contact person :** commercial.services@momentive.com

**Telephone :** General information  
+1-800-295-2392

**Emergency telephone number Supplier :** CHEMTREC  
1-800-424-9300

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable liquids Category 2

**Health Hazards**

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2A

Toxic to reproduction Category 1B

Toxic to reproduction Category 1B

Specific Target Organ Toxicity -  
Single Exposure Category 1

Specific Target Organ Toxicity -  
Single Exposure Category 3

Specific Target Organ Toxicity -  
Repeated Exposure Category 1

**SS4255 55G-Drum (450.0LBS-204.30KG)**

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Causes skin irritation.  
May damage fertility or the unborn child.  
Causes damage to organs.  
May cause drowsiness or dizziness.  
Causes damage to organs through prolonged or repeated exposure.

**Target Organs**

Xylene	No data available.
Ethylbenzene	No data available.
Silicic acid, trimethylsilyl ester	No data available.

**Precautionary Statement**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye protection/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapors. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response:** Get medical advice/attention if you feel unwell. IF exposed: Call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several

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minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** None.

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Xylene	1330-20-7	30 - 60%
Ethylbenzene	100-41-4	10 - 30%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**4. First-aid measures**

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

**Skin Contact:** Wash area with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** None known.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

**5. Fire-fighting measures**

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**General Fire Hazards:** No data available.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** No data available.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Flammable [In case of inadequate ventilation] wear respiratory protection.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep out of reach of children. Keep container tightly closed. Keep away from heat, sparks and open flame.

**Methods and material for containment and cleaning up:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section. Warn other workers of spill. Keep unauthorized personnel away.

**7. Handling and storage**

**Precautions for safe handling:** Sensitivity to static discharge is expected; material has a flash point below 200 F.

**Conditions for safe storage, including any incompatibilities:** No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	type	Exposure Limit Values	Source
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Xylene	TWA	100 ppm		US. ACGIH Threshold Limit Values (03 2015)
	STEL	150 ppm		US. ACGIH Threshold Limit Values (03 2015)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethylbenzene	TWA	20 ppm		US. ACGIH Threshold Limit Values (03 2015)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

**Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
Xylene (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEI (03 2015)
Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEI (03 2015)

**Appropriate Engineering Controls**

Use only in well-ventilated areas.

**Individual protection measures, such as personal protective equipment**

**General information:** Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

**Eye/face protection:** Safety glasses with side shields Monogoggles

**Skin Protection**

**Hand Protection:** Rubber or plastics gloves

**Other:** Wear rubber apron. Wear suitable protective clothing and eye/face protection.

**Respiratory Protection:** Use approved NIOSH respiratory protection if TLV exceeded or overexposure is likely.

**Hygiene measures:** No data available.

**9. Physical and chemical properties**

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**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Aromatic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	not applicable
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	138.00 °C
<b>Flash Point:</b>	17.20 °C (Closed Cup)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	7.00 %(V)
<b>Flammability limit - lower (%):</b>	1.00 %(V)
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	6.70 hPa
<b>Vapor density:</b>	No data available.
<b>Density:</b>	1.07 g/cm <sup>3</sup>
<b>Relative density:</b>	1.01
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Auto-ignition temperature:</b>	464.00 °C
<b>Decomposition temperature:</b>	No data available.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	No data available.

**10. Stability and reactivity**

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerisation does not occur.
<b>Conditions to avoid:</b>	Keep away from sources of ignition - No smoking. Keep away from sources of ignition - No smoking.

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<b>Incompatible Materials:</b>	Oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide Silicon dioxide. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

<b>Product:</b>	not applicable
<b>Specified substance(s):</b>	
Xylene	LD 50 (Rat): 5,000 mg/kg
Ethylbenzene	LD 50 (Rat): 2,700 mg/kg

**Dermal**

<b>Product:</b>	not applicable
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**Specified substance(s):**

Xylene LD 50 (Rabbit): 2,000 mg/kg  
LD 50 (Rat): 2,000 mg/kg

Ethylbenzene LD 50 (Rabbit): 15,354 mg/kg  
LD 50 (Rabbit): 5,000 mg/kg

**Inhalation**

**Product:** not applicable

**Specified substance(s):**

Xylene LC50 (Rat): 29.49 mg/l

Ethylbenzene (Rat): 3.4 mg/l  
(Rat): 1.7 mg/l  
LC50 (Rat): 17.6 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

Xylene No data available. (Rabbit): Slightly irritating.

**Specified substance(s):**

Ethylbenzene No data available. (Rabbit): Corrosive

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.



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**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

Ethylbenzene                      Overall evaluation: 2B. Possibly carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:**                              No data available.

**In vivo**

**Product:**                              No data available.

**Reproductive toxicity**

**Product:**                              No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:**                              No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:**                              No data available.

**Target Organs**

Xylene                                  No data available.  
Ethylbenzene                          No data available.  
Silicic acid, trimethylsilyl  
ester                                      No data available.

**Aspiration Hazard**

**Product:**                              No data available.

**Other effects:**                          None.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Xylene  
LC50 (Leuciscus idus, 48 h): 86 mg/l  
LC50 (Pimephales promelas, 96 h): 13.4 mg/l  
LC50 (Salmo gairdneri, 96 h): 14 mg/l

Ethylbenzene  
LC0 (Leuciscus idus, 48 h): 26 mg/l  
LC100 (Leuciscus idus, 48 h): 70 mg/l  
LC50 (Leuciscus idus, 48 h): 44 mg/l  
LC50 (Salmo gairdneri, 96 h): 4.2 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Xylene  
EC50 (Daphnia magna, 24 h): 165 mg/l

Ethylbenzene  
LC0 (Daphnia magna): 137 mg/l  
(Daphnia magna): 184 mg/l  
LC100 (Daphnia magna): 200 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

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Ethylbenzene 68 % (28 d, No data available.)

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in Soil:** No data available.

**Known or predicted distribution to environmental compartments**

Xylene No data available.

Ethylbenzene No data available.

**Known or predicted distribution to environmental compartments**

Silicic acid, trimethylsilyl No data available.

ester

**Other Adverse Effects:** No data available.

**13. Disposal considerations**

**Disposal instructions:** Disposal should be made in accordance with federal, state and local regulations.

**Contaminated Packaging:** Dispose of as unused product.

**14. Transport information**

**DOT**

UN Number:	UN 1866
UN Proper Shipping Name:	Resin solution
Transport Hazard Class(es)	
Class:	3
Label(s):	3
Packing Group:	II
Marine Pollutant:	No

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**IMDG**

UN Number:	UN 1866
UN Proper Shipping Name:	RESIN SOLUTION
Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-E
Packing Group:	II
Marine Pollutant:	No
Limited quantity	5.00L
Excepted quantity	E2

**IATA**

UN Number:	UN 1866
Proper Shipping Name:	Resin solution
Transport Hazard Class(es):	
Class:	3
Label(s):	3
Packing Group:	II
Cargo aircraft only Packing	364
Instructions:	
Passenger and cargo aircraft	364
Packing Instructions:	
Limited quantity:	1.00L
Packing Instructions:	Y341
Excepted quantity	E2
Environmental Hazards:	Not regulated.
Marine Pollutant:	No

**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

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**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

<u>Chemical Identity</u>	<u>OSHA hazard(s)</u>
Xylene	Toxic by skin absorption
Ethylbenzene	Toxic by inhalation.
Toluene	Causes mild skin irritation.; Systemic effects
Octamethylcyclotetrasiloxane	Systemic effects
Decamethylcyclopentasiloxane	Causes mild skin irritation.; Respiratory hazard.
Cyclohexasiloxane	No OSHA Hazards
Dodecamethyl-	

**CERCLA Hazardous Substance List (40 CFR 302.4):**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Xylene	100 lbs.
<u>Chemical Identity</u>	<u>Reportable quantity</u>
Xylene	100 lbs.
Ethylbenzene	1,000 lbs.
Toluene	1,000 lbs.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Acute Health Hazard  
Fire Hazard  
Fire Hazard  
Immediate (Acute) Health Hazards  
Delayed (Chronic) Health Hazard

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Xylene	100 lbs.
Ethylbenzene	1,000 lbs.
Toluene	1,000 lbs.

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**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Xylene	10000 lbs
Ethylbenzene	10000 lbs

**SARA 313 (TRI Reporting)**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Xylene		
Ethylbenzene		

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Xylene	Reportable quantity: 100 lbs.
Ethylbenzene	Reportable quantity: 1,000 lbs.
Toluene	Reportable quantity: 1,000 lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethylbenzene	Carcinogenic.
Toluene	Developmental toxin.

**US. New Jersey Worker and Community Right-to-Know Act**

<u>Chemical Identity</u>
Xylene
Ethylbenzene

**US. Massachusetts RTK - Substance List**

<u>Chemical Identity</u>
Xylene
Ethylbenzene

**US. Pennsylvania RTK - Hazardous Substances**

<u>Chemical Identity</u>
Xylene
Ethylbenzene

**US. Rhode Island RTK**

<u>Chemical Identity</u>
Xylene
Ethylbenzene

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**Inventory Status:**

Australia AICS:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	n (Negative listing)	Remarks: None.

**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

<b>Health</b>	*	2
<b>Flammability</b>	3	
<b>Physical Hazards</b>	0	
<b>PERSONAL PROTECTION</b>		

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:** 05/12/2016  
**Revision Date:** No data available.  
**Version #:** 2.0  
**Further Information:** No data available.

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**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

**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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