

PSA 529 - Drum (200l-190.68kg)



Signal Words: Danger

Hazard Statement(s): H225: Highly flammable liquid and vapour.
 H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H336: May cause drowsiness or dizziness.
 H361d: Suspected of damaging the unborn child.
 H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P340: Remove person to fresh air and keep comfortable for breathing.
 P308+P313: IF exposed or concerned: Get medical advice/attention.
 P370+P378: In case of fire: Use... to extinguish.

Unknown toxicity - Health

Acute toxicity, oral 0 %
 Acute toxicity, dermal 0 %
 Acute toxicity, inhalation, vapor 0 %
 Acute toxicity, inhalation, dust or mist 0 %

Additional Information: No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Toluene	25 - <50%	108-88-3	203-625-9	01-2119471310-51-XXXX	No data available.	#
Octamethylcyc	1 - <3%	556-67-2	209-136-7	01-	No data	

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lotetrasiloxane				2119529238-36-0001	available.	
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* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Toluene	Flam. Liq.: 2: H225; Repr.: 2: H361d; Asp. Tox.: 1: H304; STOT RE: 2: H373; Skin Irrit.: 2: H315; STOT SE: 3: H336;	No data available.
Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 2: H411;	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest. Get medical attention.

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

Skin Contact: Take off immediately all contaminated clothing. Wash area with soap and water. Wash contaminated clothing before reuse. Get medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Do not use water jet as an extinguisher, as this will spread the fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray to keep fire-exposed containers cool.

5.1 Extinguishing media

Suitable extinguishing media: Foam. Carbon dioxide

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture: No data available.

5.3 Advice for firefighters

SDS_GB

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Special fire fighting procedures:

Keep away from sources of ignition - No smoking.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Remove sources of ignition. Keep up-wind to avoid fumes.

6.2 Environmental Precautions:

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up:

Take up with an absorbent for chemicals or, otherwise use dry sand. Shovel up and place in a container for salvage or disposal.

6.4 Reference to other sections:

Prevent entry into waterways, sewer, basements or confined areas.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Avoid contact with eyes, skin, and clothing. Do not breathe vapor/spray. See Section 8 of the SDS for Personal Protective Equipment. Static electricity and formation of sparks must be prevented. Ground and bond container and receiving equipment.

Storage conditions:

Keep away from heat, sparks and open flame. Keep container closed. Store in original container.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, well-ventilated place.

Storage Stability:

Material is stable under normal conditions.

7.3 Specific end use(s):

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Toluene	TWA	50 ppm 191 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	100 ppm 384 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	50 ppm 192 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009)
	STEL	100 ppm 384 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009)

Biological Limit Values

None.

8.2 Exposure controls

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Appropriate Engineering Controls: Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection: Advice: Short time contact:
Material: Nitrile rubber.
Minimum break through time: 25 min
Glove thickness: 0,35 mm
Advice: Prolonged contact :
Material: Gloves of nitrile rubber, PVA or Viton are recommended.
Minimum break through time: > 480 min
Glove thickness: 0,4 mm

Other: Wear suitable protective clothing.

Respiratory Protection: Respirator with a vapour filter (EN 141) Respiratory protection mask with Filtertype ABEK

Hygiene measures: Observe good industrial hygiene practices. Wash hands after handling. When using do not eat, drink or smoke.

Environmental exposure controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Aromatic
Odor Threshold: No data available.
pH: No data available.
Freezing point: No data available.
Boiling Point: 111 °C (1,013 hPa) (No data available.)
Flash Point: ca. 1,6 °C (Tagliabue Closed Cup)
Evaporation Rate: No data available.
Flammability (solid, gas): No data available.
Flammability Limit - Upper (%): ca. 7,0 %(V)
Flammability Limit - Lower (%): ca. 1,2 %(V)
Vapor pressure: ca. 22 hPa (20 °C) (EU A4)
Vapor density (air=1): No data available.
Density: 0,9826 g/cm³
Relative density: No data available.
Solubility(ies)
Solubility in Water: No data available.
Solubility (other): Soluble in toluene
Partition coefficient (n-octanol/water) Log No data available.

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Pow:	
Autoignition Temperature:	ca. 536 °C
Decomposition Temperature:	Material is stable under normal conditions.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	> 21 mm ² /s (20 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
10.4 Conditions to avoid:	Keep away from sources of ignition - No smoking.
10.5 Incompatible Materials:	Oxidizing agents.
10.6 Hazardous Decomposition Products:	Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

SECTION 11: Toxicological information

General information: A two year combined chronic / carcinogenicity study was conducted on Octamethylcyclotetrasiloxane with inhalative exposure. At the highest test concentration of 700 ppm an increase of uterine adenomas (benign tumors) was observed in some of the female rats, no effects were observed in male rats. The test concentration of 700 ppm greatly exceeds typical workplace exposure (industry proposed exposure limit: 10 ppm).

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	ATEmix: 1.922,22 mg/kg
Specified substance(s)	
Toluene	No data available.
Octamethylcyclotetrasiloxane	LD 50 (Rat): 4.800 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)	
Toluene	LD 50 (Rabbit): 12.124 mg/kg

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Octamethylcyclotetrasiloxane LD 50 (Rat): > 2.400 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Toluene LC50 (Rat, 4,00 h): 30,6 mg/l

Octamethylcyclotetrasiloxane LC50 (Rat, 4 h): 36 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasiloxane NOAEL (Rat(male and female), Inhalation - vapor(vapour)): 150 mg/kg

NOAEL (Rabbit(male and female), Dermal): 950 mg/kg LOAEL

(Rabbit(male and female), Dermal): 950 mg/kg

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Toluene Corrosive

Octamethylcyclotetrasiloxane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Toluene No data available. (No data available.): slightly irritating (not classified according to the German Dangerous Substances legislation)

Octamethylcyclotetrasiloxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Not irritating

Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasiloxane , OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig)Not sensitizing

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mouse Lymphoma Assay (OECD Guideline 476): negative (not mutagenic)

In vivo

Product: No data available.

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Specified substance(s)

Toluene	No data available.
Octamethylcyclotetrasiloxane	Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

Toluene	No data available.
Octamethylcyclotetrasiloxane	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Toluene	No data available.
Octamethylcyclotetrasiloxane	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Toluene	No data available.
Octamethylcyclotetrasiloxane	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Toluene	No data available.
Octamethylcyclotetrasiloxane	No data available.

Target Organs:

narcotic effects

narcotic effects

Aspiration Hazard

Product: No data available.

Specified substance(s)

Toluene	No data available.
Octamethylcyclotetrasiloxane	No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

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Fish

Product: No data available.

Specified substance(s)

Toluene LC0 (Leuciscus idus, 48 h): 52 mg/l (No data available.)
 LC50 (Leuciscus idus, 48 h): 70 mg/l (No data available.)
 LC50 (Pimephales promelas, 96 h): 34 mg/l (No data available.)
 Octamethylcyclotetrasiloxane No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Toluene LC0 (Daphnia magna): 93 mg/l (No data available.)
 (Daphnia magna): 270 mg/l (No data available.)
 Octamethylcyclotetrasiloxane No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Toluene No data available.
 Octamethylcyclotetrasiloxane No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Toluene No data available.
 Octamethylcyclotetrasiloxane No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Toluene No data available.
 Octamethylcyclotetrasiloxane No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Toluene No data available.
 Octamethylcyclotetrasiloxane (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)): 3,7 % Persistent Not readily biodegradable.

BOD/COD Ratio

Product: No data available.

Specified substance(s)

Toluene No data available.
 Octamethylcyclotetrasiloxane No data available.

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12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Toluene No data available.
 Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12,40

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Toluene No data available.
 Octamethylcyclotetrasiloxane No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

Toluene No data available.
 Octamethylcyclotetrasiloxane No data available.

12.6 Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:

The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

Disposal methods:

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: Transport information

ADR

14.1 UN Number: UN 1866
 14.2 UN Proper Shipping Name: RESIN SOLUTION
 14.3 Transport Hazard Class(es)
 Class: 3
 Label(s): 3
 Hazard No. (ADR): 33
 Tunnel restriction code: (D/E)
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

ADN

14.1 UN Number: UN 1866
 14.2 UN Proper Shipping Name: RESIN SOLUTION
 14.3 Transport Hazard Class(es)
 Class: 3
 Label(s): 3
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

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14.1 UN Number: UN 1866
 14.2 UN Proper Shipping Name: RESIN SOLUTION
 14.3 Transport Hazard Class(es):
 Class: 3
 Label(s): 3
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant: No

IMDG

14.1 UN Number: UN 1866
 14.2 UN Proper Shipping Name: RESIN SOLUTION
 14.3 Transport Hazard Class(es):
 Class: 3
 Label(s): 3
 EmS No.: F-E, S-E
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant: No

IATA

14.1 UN Number: UN 1866
 14.2 Proper Shipping Name: Resin solution
 14.3 Transport Hazard Class(es):
 Class: 3
 Label(s): 3
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant: No

14.6 Special precautions for user: Highly Flammable Keep away from food, foodstuff, acids and bases.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:
 not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	40 - 50%

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Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	40 - 50%

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	40 - 50%
Octamethylcyclotetrasiloxane	556-67-2	1,0 - 10%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	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.
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: On TSCA Inventory
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

SECTION 16: Other information

Revision Information: Not relevant.

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Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Flam. Liq. 2, H225
Flam. Liq. 2, H225
Skin Corr. 2, H315
Skin Corr. 2, H315
Repr. 2, H361d
Repr. 2, H361d
STOT SE 3, H336
STOT SE 3, H336
STOT RE 2, H373
STOT RE 2, H373

Issue Date: 05.03.2018

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

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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