

SS4179

SAFETY DATA SHEET

1. Identification

Product identifier: SS4179

Other means of identification

Synonyms: Primer solution

Recommended use and restriction on use

Recommended use: Primer

Restrictions on use: Not known.

Manufacturer : Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Distributor Information : DC Products Pty Limited
Unit 117 45 Gilby Road
Mount Waverley 3149 Australia

Contact person : Viren Kumar

Telephone : +61 3 95588898

Emergency telephone number
Supplier : 61 418 529 118

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Specific Target Organ Toxicity -
Repeated Exposure Category 1

Acute toxicity (Oral) Category 4

Serious Eye Damage/Eye Irritation Category 2A

Skin sensitizer Category 1

Specific Target Organ Toxicity -
Single Exposure Category 1¹.

Specific Target Organ Toxicity -
Single Exposure Category 2².

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Specific Target Organ Toxicity - Single Exposure	Category 3 ³ .
Specific Target Organ Toxicity - Repeated Exposure	Category 1 ⁴ .
Specific Target Organ Toxicity - Repeated Exposure	Category 2 ⁵ .

Target Organs

1. Central nervous system.
2. optic nerve
3. Narcotic effect.
4. Peripheral nervous system
5. Kidney, Liver, Skin

Unknown toxicity - Health

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

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Highly flammable liquid and vapor.
 Harmful if swallowed.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 Causes damage to organs.
 May cause drowsiness or dizziness.
 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take

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precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust or mists. Use only outdoors or in a well-ventilated area.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. If exposed: Call a poison center/doctor Specific treatment (see this label). Wash contaminated clothing before reuse. In case of fire: Use ... to extinguish.

Storage:

Store in well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

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:

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients
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Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
ETHYL ACETATE	141-78-6	60 - 100%	# This substance has workplace exposure limit(s).
Methyl Methacrylate	80-62-6	7 - 13%	# This substance has workplace exposure limit(s).
Methanol	67-56-1	3 - 7%	# This substance has workplace exposure limit(s).
DIBENZOYL PEROXIDE	94-36-0	0.1 - 1%	# This substance has workplace exposure limit(s).

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

4. First-aid measures

Ingestion: Do NOT induce vomiting.

Inhalation: Move to fresh air.

Skin Contact: No data available.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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

General Fire Hazards: No data available.

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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Foam. Carbon dioxide Alcohol foam.

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: Wear appropriate personal protective equipment. Flammable

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep container tightly closed.

Methods and material for containment and cleaning up: Wipe, scrape or soak up in an inert material and put in a container for disposal.

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
ETHYL ACETATE	TWA	400 ppm	US. ACGIH Threshold Limit Values (03 2015)
	REL	400 ppm 1,400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

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	PEL	400 ppm	1,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	400 ppm	1,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Methyl Methacrylate	TWA	50 ppm		US. ACGIH Threshold Limit Values (03 2015)
	STEL	100 ppm		US. ACGIH Threshold Limit Values (03 2015)
	REL	100 ppm	410 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	100 ppm	410 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm	410 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Methanol	TWA	200 ppm		US. ACGIH Threshold Limit Values (03 2015)
	STEL	250 ppm		US. ACGIH Threshold Limit Values (03 2015)
	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	200 ppm	260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	200 ppm	260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	250 ppm	325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
DIBENZOYL PEROXIDE	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (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: Face shield Monogoggles

Skin Protection

Hand Protection: Rubber or plastics gloves

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

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Respiratory Protection: Use only in well-ventilated areas. Use approved NIOSH respiratory protection if TLV exceeded or overexposure is likely.

Hygiene measures: No data available.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless

Odor: ester like

Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: ca. 80 °C

Flash Point: -2.80 °C (Tagliabue Closed Cup)

Evaporation rate: ca. 6

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): 11.00 %(V)

Flammability limit - lower (%): 2.00 %(V)

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Heat of combustion: No data available.

Vapor pressure: not applicable

Vapor density: No data available.

Density: ca. 0.91 g/cm³

Relative density: 0.91

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): SOLUBLE IN ALCOHOLS

Partition coefficient (n-octanol/water) Log Pow: No data available.

Auto-ignition temperature: 385.00 °C

Decomposition temperature: No data available.

SADT: No data available.

Viscosity, dynamic: No data available.

Viscosity, kinematic: No data available.

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VOC: 859 g/l

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: No data available.

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: Keep away from sources of ignition - No smoking. Keep away from sources of ignition - No smoking.

Incompatible Materials: Oxidizing agents.

Hazardous Decomposition Products: Methanol Formaldehyde. 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

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product: ATEmix: 1,919.94 mg/kg

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Specified substance(s):

ETHYL ACETATE LD 50 (Rat, No data available.): 5,620 mg/kg
LD 50 (Guinea Pig, No data available.): 5,500 mg/kg
LD 50 (Mouse, No data available.): 4,100 mg/kg
LD 50 (Rabbit, No data available.): 4,935 mg/kg

Methanol LD 50 (Rat): 5,628 mg/kg

Dermal

Product: ATEmix: 9,462.53 mg/kg

Specified substance(s):

ETHYL ACETATE LD 50 (Rabbit, No data available.): 20,000 mg/kg
LD 50 (Rabbit, No data available.): 20,000 mg/kg

Methanol LD 50 (Rabbit): 15,800 mg/kg

Inhalation

Product: ATEmix: 60.74 mg/l

Specified substance(s):

ETHYL ACETATE LC50 (Rat, No data available.): 1.6 mg/l
LC50 (Mouse, No data available.): 45 mg/l

Methanol LC 50 (Rat): 6.4 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

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:

No carcinogenic components identified

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

Specific Target Organ Toxicity - Single Exposure: Central nervous system.

Specific Target Organ Toxicity - Single Exposure: optic nerve

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Specific Target Organ Toxicity - Repeated Exposure: Peripheral nervous system

Specific Target Organ Toxicity - Repeated Exposure: Kidney, Liver, Skin

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

ETHYL ACETATE LC50 (Leuciscus idus, 48 h): ca. 270 mg/l
 LC50 (Pimephales promelas, 96 h): 230 mg/l

Methanol LC50 (Pimephales promelas, 96 h): 28,100 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

ETHYL ACETATE LC0 (Daphnia magna): 1,562 mg/l
 (Daphnia magna): 3,090 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):

ETHYL ACETATE 68 % (5 d, No data available.)
 85 % (28 d, No data available.)

BOD/COD Ratio

Product: No data available.

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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

ETHYL ACETATE	No data available.
Methyl Methacrylate	No data available.
Methanol	No data available.
DIBENZOYL PEROXIDE	No data available.

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 1993
UN Proper Shipping Name:	Flammable liquids, n.o.s.(ETHYL ACETATE, METHANOL)
Transport Hazard Class(es)	
Class:	3
Label(s):	3
Packing Group:	II
Marine Pollutant:	No

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IMDG

UN Number:	UN 1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.(ETHYL ACETATE, METHANOL)
Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-E
Packing Group:	II
Marine Pollutant:	No
Limited quantity	1.00L
Excepted quantity	E2

IATA

UN Number:	UN 1993
Proper Shipping Name:	Flammable liquid, n.o.s.(ETHYL ACETATE, METHANOL)
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.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
ETHYL ACETATE	5,000 lbs.
Methyl Methacrylate	1,000 lbs.
Methanol	5,000 lbs.

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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>
ETHYL ACETATE	5,000 lbs.
Methyl Methacrylate	1,000 lbs.
Methanol	5,000 lbs.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
ETHYL ACETATE	10000 lbs
Methyl Methacrylate	10000 lbs
Methanol	10000 lbs
DIBENZOYL PEROXIDE	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>
Methyl Methacrylate		
Methanol		

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

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Methyl Methacrylate	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.

Methanol	Maximum Allowable Dose Level (MADL): 47000 µg/day. Developmental toxin.
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US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u>
ETHYL ACETATE

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Methyl Methacrylate
Methanol
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl) propyl ester
DIBENZOYL PEROXIDE
ETHYL ACETATE
Methyl Methacrylate
Methanol
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl) propyl ester

US. Massachusetts RTK - Substance List

Chemical Identity

ETHYL ACETATE
Methyl Methacrylate
Methanol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

ETHYL ACETATE
Methyl Methacrylate
Methanol

US. Rhode Island RTK

Chemical Identity

ETHYL ACETATE
Methyl Methacrylate
Methanol

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Inventory Status:

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	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 NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.

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

HMIS Hazard ID

Health	*	4
Flammability		3
Physical Hazards		1
PERSONAL PROTECTION		

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

Issue Date: 09/02/2016
Revision Date: No data available.
Version #: 1.8
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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