

SS 4179



Signal Words: Danger

Hazard Statement(s): H225: Highly flammable liquid and vapor.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H371: May cause damage to organs.

Precautionary Statement

Prevention: 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/vapors/spray.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
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.
P337+P313: If eye irritation persists: Get medical advice/attention.
P308+P311: If exposed or concerned: Call a POISON CENTER/doctor.
P370+P378: In case of fire: Use to extinguish.

Supplemental label information

EUH066: Repeated exposure may cause skin dryness or cracking.

Unknown toxicity - Health

Acute toxicity, oral	0,01 %
Acute toxicity, dermal	0,01 %
Acute toxicity, inhalation, vapor	0,01 %
Acute toxicity, inhalation, dust or mist	0,01 %

Additional Information: No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Primer solution.

3.2 Mixtures

General information: No data available.

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Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
ETHYL ACETATE	50 - <100%	141-78-6	205-500-4	No data available.	No data available.	#
Methyl Methacrylate	5 - <10%	80-62-6	201-297-1	No data available.	No data available.	#
Methanol	3 - <5%	67-56-1		01-2119433307-44-0093	No data available.	#
DIBENZOYL PEROXIDE	0,1 - <1%	94-36-0	202-327-6	No data available.	No data available.	#

* 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
ETHYL ACETATE	Flam. Liq.: 2: H225 STOT SE: 3: H336Eye Irrit.: 2: H319No data available.	No data available.
Methyl Methacrylate	Flam. Liq.: 2: H225 STOT SE: 3: H335Skin Irrit.: 2: H315Skin Sens.: 1: H317No data available.	Note D
Methanol	Flam. Liq.: 2: H225 Acute Tox.: 3: H331Acute Tox.: 3: H311Acute Tox.: 3: H301STOT SE: 1: H370	No data available.
DIBENZOYL PEROXIDE	Org. Perox.: B: H241 Eye Irrit.: 2: H319Skin Sens.: 1: H317No data available.	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:** Rinse immediately with plenty of water and seek medical advice.
- Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Take victim immediately to hospital.

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.

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Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

5.1 Extinguishing media
Suitable extinguishing media: Dry chemical. Alcohol-resistant foam Foam. Carbon dioxide

Unsuitable extinguishing media: No data available.

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

5.3 Advice for firefighters
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: Use personal protective equipment. Keep up-wind to avoid fumes.

6.2 Environmental Precautions: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up: Collect spillage with granulates, sawdust, rags or other absorbent. Shovel up and place in a container for salvage or disposal.

6.4 Reference to other sections: No data available.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Use only in well-ventilated areas. Wear appropriate personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, well-ventilated place.

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
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ETHYL ACETATE	TWA	200 ppm	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	400 ppm	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Methyl Methacrylate	TWA	50 ppm 208 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	100 ppm 416 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Methanol	TWA	200 ppm 266 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	250 ppm 333 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	200 ppm 260 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU (12 2009)
DIBENZOYL PEROXIDE	TWA	5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering Controls:

Provide eyewash station and safety shower. If the formation of aerosol/mist cannot be excluded, ensure effective exhaust ventilation in the working area.

Individual protection measures, such as personal protective equipment

General information:

Use only in well-ventilated areas. Avoid contact with skin and eyes.

Eye/face protection:

Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection:

Material: 395 Combi-Latex
 Minimum break through time: 10 min
 Glove thickness: 1,0 mm
 Guideline: EN 374
 Material: 898 Butoject
 Minimum break through time: 120 min
 Glove thickness: 0,7 mm
 Guideline: EN 374
 Advice: This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email: vertrieb@kcl.de).

Other:

No data available.

Respiratory Protection:

Respiratory protection mask with Filtrertype ABEK

Hygiene measures:

Observe good industrial hygiene practices. Wash hands after handling. When using do not eat, drink or smoke. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

Environmental exposure controls:

No data available.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	ester like
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	< 0 °C
Boiling Point:	ca. 80 °C
Flash Point:	-2,80 °C (Tagliabue Closed Cup)
Evaporation Rate:	ca. 6
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	11 %(V) (No data available.)
Flammability Limit - Lower (%):	2 %(V) (No data available.)
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	ca. 0,91 g/cm ³
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Autoignition Temperature:	ca. 385 °C
Decomposition Temperature:	No decomposition if stored and applied as directed.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	Reactions with oxidizing agents.
10.4 Conditions to avoid:	No data available.
10.5 Incompatible Materials:	No data available.
10.6 Hazardous Decomposition Products:	Carbon oxides

SECTION 11: Toxicological information

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General information: Experience has shown, that the above mentioned product can be used without any danger to health, as long as the usual conditions of industrial hygiene are observed.

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: 3.333,33 mg/kg
- Specified substance(s)**
 - ETHYL ACETATE LD 50 (Rat): 5.620 mg/kg
 LD 50 (Guinea Pig): 5.500 mg/kg
 LD 50 (Mouse): 4.100 mg/kg
 LD 50 (Rabbit): 4.935 mg/kg
 - Methyl Methacrylate No data available.
 - Methanol LD 50 (Rat): 5.628 mg/kg
 - DIBENZOYL PEROXIDE No data available.

Dermal

- Product:** ATEmix: 10.000 mg/kg
- Specified substance(s)**
 - ETHYL ACETATE LD 50 (Rabbit): 20.000 mg/kg
 LD 50 (Rabbit): 20.000 mg/kg
 - Methyl Methacrylate No data available.
 - Methanol LD 50 (Rabbit): 15.800 mg/kg
 - DIBENZOYL PEROXIDE No data available.

Inhalation

- Product:** ATEmix100 mg/l Vapour
- Specified substance(s)**
 - ETHYL ACETATE LC50 (Rat, 8,00 h): 1,6 mg/l
 LC50 (Mouse, 2,00 h): 45 mg/l
 - Methyl Methacrylate No data available.
 - Methanol LC50 (Rat, 4,00 h): 6.400 mg/l
 - DIBENZOYL PEROXIDE No data available.

Repeated dose toxicity

- Product:** No data available.
- Specified substance(s)**
 - ETHYL ACETATE No data available.
 - Methyl Methacrylate No data available.

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Methanol No data available.
 DIBENZOYL PEROXIDE No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

ETHYL ACETATE No data available.
 Methyl Methacrylate No data available.
 Methanol (Rabbit): Corrosive
 DIBENZOYL Irritating.
 PEROXIDE

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

ETHYL ACETATE No data available.
 Methyl Methacrylate No data available.
 Methanol No data available.
 DIBENZOYL Irritating to eyes.
 PEROXIDE

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

ETHYL ACETATE No data available.
 Methyl Methacrylate No data available.
 Methanol (Guinea Pig)negative
 DIBENZOYL No data available.
 PEROXIDE

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

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

In vivo

Product: No data available.

Specified substance(s)

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

Carcinogenicity

Product: No data available.

Specified substance(s)

ETHYL ACETATE No data available.

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

Reproductive toxicity

Product: No data available.

Specified substance(s)

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

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

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

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

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

Target Organs:

narcotic effects

Aspiration Hazard

Product: No data available.

Specified substance(s)

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

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

ETHYL ACETATE LC50 (Leuciscus idus, 48 h): ca. 270 mg/l (No data available.)
 LC50 (Pimephales promelas, 96 h): 230 mg/l (No data available.)
 Methyl Methacrylate No data available.
 Methanol LC50 (Pimephales promelas, 96 h): 28.100 mg/l
 DIBENZOYL PEROXIDE No data available.

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Aquatic Invertebrates

Product: No data available.

Specified substance(s)

ETHYL ACETATE LC0 (Daphnia magna): 1.562 mg/l (No data available.)
 (Daphnia magna): 3.090 mg/l (No data available.)
 Methyl Methacrylate No data available.
 Methanol No data available.
 DIBENZOYL PEROXIDE No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

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

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

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

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

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

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

ETHYL ACETATE Biological degradability (5 d, No data available.): 68 %
 Biological degradability (28 d, No data available.): 85 %
 Methyl Methacrylate No data available.
 Methanol No data available.
 DIBENZOYL PEROXIDE No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

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

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DIBENZOYL PEROXIDE No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

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

12.4 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.

12.5 Results of PBT and vPvB assessment:

No data available.

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

12.6 Other Adverse Effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

14.1 UN Number: UN 1993
 14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(ETHYL ACETATE, METHANOL)
 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
 Limited quantity 1,00L
 Excepted quantity E2
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

ADN

14.1 UN Number: UN 1993
 14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(ETHYL ACETATE, METHANOL)
 14.3 Transport Hazard Class(es)

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Class:	3
Label(s):	3
Hazard No. (ADR):	–
14.4 Packing Group:	II
Limited quantity	1,00L
Excepted quantity	E2
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant	No

RID

14.1 UN Number:	UN 1993
14.2 UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.(ETHYL ACETATE, METHANOL)
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 1993
14.2 UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.(ETHYL ACETATE, METHANOL)
14.3 Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-E
14.4 Packing Group:	II
Limited quantity	1,00L
Excepted quantity	E2
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	No

IATA

14.1 UN Number:	UN 1993
14.2 Proper Shipping Name:	Flammable liquid, n.o.s.(ETHYL ACETATE, METHANOL)
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
14.4 Packing Group:	II
Cargo aircraft only Packing Instructions:	364
Passenger and cargo aircraft Packing Instructions:	364
Limited quantity:	1,00L
Packing Instructions:	Y341
Excepted quantity	E2
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	No

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

14.7 Transport in bulk according to Annex II of MARPOL73/78 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. 689/2008 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
ETHYL ACETATE	141-78-6	80 - 90%
Methyl Methacrylate	80-62-6	1,0 - 10%
Methanol	67-56-1	1,0 - 10%

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.: none

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
ETHYL ACETATE	141-78-6	80 - 90%
Methyl Methacrylate	80-62-6	1,0 - 10%
Methanol	67-56-1	1,0 - 10%
DIBENZOYL PEROXIDE	94-36-0	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS: y (positive listing)

Canada DSL Inventory y (positive listing)

List:

EU EINECS List: y (positive listing)

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Japan (ENCS) List:	y (positive listing)
China Inventory of Existing Chemical Substances:	y (positive listing)
Korea Existing Chemicals Inv. (KECI):	y (positive listing)
Canada NDSL Inventory:	n (Negative listing)
Philippines PICCS:	y (positive listing)
US TSCA Inventory:	y (positive listing)
New Zealand Inventory of Chemicals:	y (positive listing)
Taiwan. Taiwan inventory (CSNN):	y (positive listing)

SECTION 16: Other information

Revision Information: Not relevant.

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 vapor.
H241	Heating may cause a fire or explosion.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H371	May cause damage to organs.

Training information: No data available.

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

Flam. Liq. 2, H225
Eye Dam. 2, H319
Skin Sens. 1, H317
STOT SE 2, H371
STOT SE 3, H336

Issue Date: 19.07.2016

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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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