

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

**DOW CORNING**

## DOW CORNING(R) PRIMER-C

Version 1.2      Revision Date: 2015/10/14      SDS Number: 732978-00003      Date of last issue: 2015/04/03  
Date of first issue: 2014/11/11

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) PRIMER-C  
Product code : 000000000002213931, 000000000002213931  
Chemical nature : Silicone in solvent

#### Manufacturer or supplier's details

Company : Dow Corning (Zhangjiagang) Holding Company Limited  
Address : 18 Beihai Road, Yangtze River International Chemical Industry Park, Zhangjiagang, Jiangsu Province, P.R.C., Postal Code: 215634  
Telephone : 400 880 7110  
Emergency telephone number : (86 512) 56732049  
E-mail address : China.info@dowcorning.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

**Appearance** : liquid  
**Colour** : colourless  
**Odour** : solvent-like

Highly flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life.

#### GHS Classification

Flammable liquids : Category 2  
Skin corrosion/irritation : Category 3  
Serious eye damage/eye irritation : Category 2A  
Specific target organ toxicity - single exposure : Category 3  
Acute aquatic toxicity : Category 3

#### GHS label elements

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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H225 Highly flammable liquid and vapour.  
H316 Causes mild skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H402 Harmful to aquatic life.

Precautionary statements :

**Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Highly flammable liquid and vapour.

### Health hazards

Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

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### Environmental hazards

Harmful to aquatic life.

### Other hazards which do not result in classification

Static-accumulating flammable liquid.  
Vapours may form explosive mixture with air.  
Repeated exposure may cause skin dryness or cracking.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Ethyl acetate	141-78-6	>= 70 - < 90
Methyl methacrylate, 3-(trimethoxysilyl)propyl methacrylate polymer	26936-30-1	>= 1 - < 10
Xylene	1330-20-7	>= 1 - < 10
Ethylbenzene	100-41-4	>= 1 - < 10
Cyclohexanone	108-94-1	>= 1 - < 10
3,4-Dicyano-3,4-dimethylhexane	128903-20-8	>= 0.1 - < 1

## 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Causes mild skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Prolonged or repeated contact may dry skin and cause irritation.

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Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician : Treat symptomatically and supportively.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Silicon oxides  
Formaldehyde

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.  
Ventilate the area.  
Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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Methods and materials for containment and cleaning up : Non-sparking tools should be used.  
Soak up with inert absorbent material.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 7. HANDLING AND STORAGE

#### Handling

Technical measures : Ensure all equipment is electrically grounded before beginning transfer operations.  
This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.  
Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/Total ventilation : Use with local exhaust ventilation.  
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Do not breathe vapours or spray mist.  
Do not swallow.  
Do not get in eyes.  
Handle in accordance with good industrial hygiene and safety practice.  
Non-sparking tools should be used.  
Keep container tightly closed.  
Keep away from water.  
Protect from moisture.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

Avoidance of contact : Oxidizing agents  
Water

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### Storage

Conditions for safe storage : Keep in properly labelled containers.  
Store locked up.  
Keep tightly closed.  
Keep in a cool, well-ventilated place.  
Store in accordance with the particular national regulations.  
Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:  
Self-reactive substances and mixtures  
Organic peroxides  
Oxidizing agents  
Flammable gases  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Poisonous gases  
Explosives

Packaging material : Unsuitable material: None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
Ethyl acetate	141-78-6	PC-TWA	200 mg/m <sup>3</sup>	GBZ 2.1-2007	
		PC-STEL	300 mg/m <sup>3</sup>	GBZ 2.1-2007	
		TWA	400 ppm	ACGIH	
Xylene	1330-20-7	PC-TWA	50 mg/m <sup>3</sup>	GBZ 2.1-2007	
		PC-STEL	100 mg/m <sup>3</sup>	GBZ 2.1-2007	
		TWA	100 ppm	ACGIH	
		STEL	150 ppm	ACGIH	
Ethylbenzene	100-41-4	PC-TWA	100 mg/m <sup>3</sup>	GBZ 2.1-2007	
		Further information: G2B - Possibly carcinogenic to humans			
		PC-STEL	150 mg/m <sup>3</sup>	GBZ 2.1-2007	
Cyclohexanone	108-94-1	TWA	20 ppm	ACGIH	
		PC-TWA	50 mg/m <sup>3</sup>	GBZ 2.1-2007	
		Further information: Skin			
		TWA	20 ppm	ACGIH	

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		STEL	50 ppm	ACGIH
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**Occupational exposure limits of decomposition products**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	PC-TWA	25 mg/m <sup>3</sup>	GBZ 2.1-2007
	Further information: Skin			
		PC-STEL	50 mg/m <sup>3</sup>	GBZ 2.1-2007
	Further information: Skin			
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Cyclohexanone	108-94-1	1,2-Cyclohexanediol	Urine	End of shift at end of work-week	80 mg/l	ACGIH BEI
		Cyclohexanol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	ACGIH BEI
Xylene	1330-20-7	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
 Minimize workplace exposure concentrations.  
 Use only in an area equipped with explosion proof exhaust ventilation.  
 Use with local exhaust ventilation.

**Personal protective equipment**

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- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Filter type : Self-contained breathing apparatus
- Eye/face protection : Wear the following personal protective equipment:  
Safety goggles
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:  
Flame retardant antistatic protective clothing.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hand protection
- Material : Antistatic gloves
- Material : Impervious gloves
- Material : Flame retardant gloves
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.  
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.  
For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com)) or contact the Dow Corning customer service group.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : colourless



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Odour	:	solvent-like
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	>= 75 °C
Flash point	:	-3.99 °C Method: Tag closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	0.9
Solubility(ies)	:	
Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, kinematic	:	1 cSt
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available

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### 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
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Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Highly flammable liquid and vapour.  
Vapours may form explosive mixture with air.  
Use at elevated temperatures may form highly hazardous compounds.  
Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed upon contact with water or humid air.  
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Exposure to moisture  
Handling operations that can promote accumulation of static charges.  
Heat, flames and sparks.

Incompatible materials : Oxidizing agents  
Water

Hazardous decomposition products  
Contact with water or humid air : Methanol

Thermal decomposition : Formaldehyde

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### 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### **Components:**

##### **Ethyl acetate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

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Acute inhalation toxicity : LC50 (Rat): > 29.3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **Xylene:**

Acute oral toxicity : LD50 (Rat): 4,300 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.1.

Acute inhalation toxicity : LC50 (Rat): 27.5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
  
Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

### **Ethylbenzene:**

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17.2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **Cyclohexanone:**

Acute oral toxicity : LD50 (Rat): 1,890 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Expert judgement

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Expert judgement

### **3,4-Dicyano-3,4-dimethylhexane:**

Acute oral toxicity : LD50 (Rat): 3,530 mg/kg

Acute inhalation toxicity : LC50 (Rat): 8.72 mg/l  
Exposure time: 4 h

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Test atmosphere: dust/mist

### **Skin corrosion/irritation**

Causes mild skin irritation.

#### **Components:**

##### **Ethyl acetate:**

Species: Rabbit

Result: No skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

##### **Methyl methacrylate, 3-(trimethoxysilyl)propyl methacrylate polymer:**

Result: Skin irritation

Remarks: Information taken from reference works and the literature.

##### **Xylene:**

Species: Rabbit

Result: Skin irritation

##### **Cyclohexanone:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

##### **3,4-Dicyano-3,4-dimethylhexane:**

Species: Rabbit

Result: No skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Components:**

##### **Ethyl acetate:**

Result: Irritation to eyes, reversing within 21 days

Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

##### **Methyl methacrylate, 3-(trimethoxysilyl)propyl methacrylate polymer:**

Result: Irritation to eyes, reversing within 21 days

Remarks: Information taken from reference works and the literature.

##### **Xylene:**

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days

##### **Ethylbenzene:**

Species: Rabbit

Result: No eye irritation

##### **Cyclohexanone:**

Species: Rabbit

Result: Irreversible effects on the eye

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### **3,4-Dicyano-3,4-dimethylhexane:**

Species: Rabbit

Result: No eye irritation

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Components:**

#### **Ethyl acetate:**

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

#### **Xylene:**

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

#### **Ethylbenzene:**

Test Type: Human repeat insult patch test (HRIPT)

Exposure routes: Skin contact

Result: negative

#### **Cyclohexanone:**

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Result: negative

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Ethyl acetate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Hamster  
Application Route: Ingestion  
Result: negative

#### **Xylene:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

: Test Type: In vitro sister chromatid exchange assay in mam-

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malian cells  
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)  
Species: Mouse  
Application Route: Skin contact  
Result: negative

### **Ethylbenzene:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

: Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with  
mammalian liver cells in vivo  
Species: Mouse  
Application Route: Inhalation  
Method: OECD Test Guideline 486  
Result: negative

### **Cyclohexanone:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Xylene:**

Species: Rat  
Application Route: Ingestion  
Exposure time: 103 weeks  
Result: negative

#### **Ethylbenzene:**

Species: Rat  
Application Route: Inhalation  
Exposure time: 104 weeks  
Result: positive  
Remarks: The mechanism or mode of action may not be relevant in humans.

#### **Cyclohexanone:**

Species: Mouse  
Application Route: Ingestion  
Exposure time: 104 weeks

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Method: OECD Test Guideline 453  
Result: negative

### Reproductive toxicity

Not classified based on available information.

#### Components:

##### **Ethyl acetate:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Inhalation  
Result: negative

##### **Xylene:**

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

##### **Ethylbenzene:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 415  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Inhalation  
Method: OECD Test Guideline 414  
Result: negative

##### **Cyclohexanone:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

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### **3,4-Dicyano-3,4-dimethylhexane:**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Inhalation  
Result: positive

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### **STOT - single exposure**

May cause drowsiness or dizziness.

#### **Components:**

##### **Ethyl acetate:**

Assessment: May cause drowsiness or dizziness.

##### **Xylene:**

Assessment: May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified based on available information.

#### **Components:**

##### **Xylene:**

Exposure routes: inhalation (vapour)  
Target Organs: Central nervous system, Liver, Kidney  
Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

##### **Ethylbenzene:**

Exposure routes: inhalation (vapour)  
Target Organs: Auditory system  
Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

### **Repeated dose toxicity**

#### **Components:**

##### **Ethyl acetate:**

Species: Rat  
NOAEL: 900 mg/kg  
Application Route: Ingestion  
Exposure time: 90 Days

##### **Xylene:**

Species: Rat  
NOAEL: 4.35 mg/l  
Application Route: inhalation (vapour)  
Exposure time: 90 Days

##### **Ethylbenzene:**

Species: Rat, female



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LOAEL: 75 ppm  
Application Route: inhalation (vapour)  
Exposure time: 104 Weeks

### **Cyclohexanone:**

Species: Rat  
NOAEL: 143 mg/kg  
Application Route: Ingestion  
Exposure time: 90 Days  
Method: OECD Test Guideline 408

### **3,4-Dicyano-3,4-dimethylhexane:**

Species: Rat  
NOAEL: 210 mg/kg  
Application Route: Ingestion  
Exposure time: 90 Days

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **Xylene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Ethylbenzene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Components:**

##### **Ethyl acetate:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 220 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 100 mg/l Exposure time: 48 h
Toxicity to algae	:	NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 2.4 mg/l Exposure time: 24 d
Toxicity to bacteria	:	EC50 (Photobacterium phosphoreum): 5,870 mg/l Exposure time: 0.25 h

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### **Methyl methacrylate, 3-(trimethoxysilyl)propyl methacrylate polymer:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp.): > 100 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Scenedesmus subspicatus): > 100 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

### **Xylene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : IC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae : EC10 (Pseudokirchneriella subcapitata (green algae)): 1.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

ErC50 (Pseudokirchneriella subcapitata (green algae)): 4.36 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l  
Exposure time: 56 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 1.91 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

Toxicity to bacteria : EC50: > 157 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

### **Ethylbenzene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 5.4 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l  
Exposure time: 7 d

Toxicity to bacteria : EC50 (Nitrosomonas sp.): 96 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 209

### **Cyclohexanone:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to bacteria : EC50: > 1,000 mg/l  
Exposure time: 0.5 h  
Method: OECD Test Guideline 209

### **3,4-Dicyano-3,4-dimethylhexane:**

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 91.1 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

### **Persistence and degradability**

#### **Components:**

##### **Ethyl acetate:**

Biodegradability : Result: Readily biodegradable  
Biodegradation: 69 %  
Exposure time: 20 d

##### **Xylene:**

Biodegradability : Result: Readily biodegradable  
Biodegradation: 87.8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

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### **Ethylbenzene:**

Biodegradability : Result: Readily biodegradable  
Biodegradation: 70 - 80 %  
Exposure time: 28 d

### **Cyclohexanone:**

Biodegradability : Result: Readily biodegradable  
Biodegradation: 90 - 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### **Bioaccumulative potential**

#### **Components:**

##### **Ethyl acetate:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): 30  
Exposure time: 3 d

Partition coefficient: n-octanol/water : log Pow: 0.68

##### **Xylene:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 5.4 - 25.9

Partition coefficient: n-octanol/water : log Pow: 3.12 - 3.2

##### **Ethylbenzene:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): < 100  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 3.6

##### **Cyclohexanone:**

Partition coefficient: n-octanol/water : log Pow: 0.86  
Remarks: Based on data from similar materials

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

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## **13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not burn, or use a cutting torch on, the empty drum.  
If not otherwise specified: Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(Ethyl acetate, Ethylbenzene)  
Class : 3  
Packing group : II  
Labels : 3

##### IATA-DGR

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(Ethyl acetate, Ethylbenzene)  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

##### IMDG-Code

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(Ethyl acetate, Ethylbenzene)  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### GB 6944/12268

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(Ethyl acetate, Ethylbenzene)  
Class : 3  
Packing group : II  
Labels : 3

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### 15. REGULATORY INFORMATION

#### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

#### Regulations on Safety Management of Hazardous Chemicals

Identification of Major Hazard Installations for Dangerous Chemicals (GB 18218)

Category	Threshold quantity
Flammable liquids	1,000 t

Hazardous Chemicals for Priority Management under SAWS : Listed

#### The components of this product are reported in the following inventories:

- NZIoC : All ingredients listed or exempt.
- REACH : All ingredients (pre-)registered or exempt.
- TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
- PICCS : All ingredients listed or exempt.
- ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.
- IECSC : All ingredients listed or exempt.
- AICS : All ingredients listed or exempt.
- DSL : This product contains one or more substances which are not on the Canadian Domestic Substances List (DSL). Import of this product into Canada has volume limitations. For volume limits please consult Dow Corning Regulatory Compliance.
- KECI : Consult your local Dow Corning office.

### 16. OTHER INFORMATION

#### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
GBZ 2.1-2007	: Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
GBZ 2.1-2007 / PC-TWA	: Permissible concentration - time weighted average
GBZ 2.1-2007 / PC-STEL	: Permissible concentration - short term exposure limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, in-

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cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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