

Flange Sealant Loctite 193140

Version 3.0 Revision Date: 05/25/2016 SDS Number: 346318-00002 Date of last issue: 05/25/2016
Date of first issue: 04/08/2015

SECTION 1. IDENTIFICATION

Product name : Flange Sealant Loctite 193140

Product code : 83 19 0 439 030

Manufacturer or supplier's details

Company name of supplier : BMW of North America, LLC

Address : 300 Chestnut Ridge Road
Woodcliff Lake NJ 07677

Telephone : 201 307 4000

Telefax : 201 307 4095

Emergency telephone : For 24-hour emergency assistance, call: the 3E Company at
1-877-472-1724.
Please provide product tracking code: 9457.

E-mail address : hazmat@bmw.com

Recommended use of the chemical and restrictions on use

Recommended use : Sealant

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Eye irritation : Category 2A

Skin sensitization : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ
systemic toxicity - single
exposure : Category 3

Specific target organ
systemic toxicity - repeated
exposure (Inhalation) : Category 2 (Lungs)

GHS label elements

Hazard pictograms :



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Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor 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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Storage:
P405 Store locked up.

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

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| Chemical name | CAS-No. | Concentration (% w/w) |
|---|-------------|-----------------------|
| 2,2'-Ethylenedioxydiethyl dimethacrylate | 109-16-0 | >= 5 - < 10 |
| Silicon, amorphous | 112945-52-5 | >= 1 - < 5 |
| Cumene hydroperoxide | 80-15-9 | >= 1 - < 5 |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide | 75980-60-8 | >= 0.1 - < 1 |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | >= 0.1 - < 1 |
| 2'-Phenylacetohydrazide | 114-83-0 | >= 0.1 - < 1 |
| Cumene | 98-82-8 | >= 0.1 - < 1 |

SECTION 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 soap and 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 : May cause an allergic skin reaction.
 Causes serious eye irritation.
 May cause respiratory irritation.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.
 May cause damage to organs through prolonged or repeated exposure if inhaled.
- 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.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray

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Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
Phenol

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked 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.

SECTION 7. HANDLING AND STORAGE

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- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use with local exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.
 Do not breathe vapors or spray mist.
 Do not swallow.
 Do not get in eyes.
 Handle in accordance with good industrial hygiene and safety practice.
 Keep container tightly closed.
 Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled containers.
 Store locked up.
 Keep tightly closed.
 Keep in a cool, well-ventilated place.
 Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:
 Strong oxidizing agents
- Recommended storage temperature : 8 - 21 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

| Ingredients | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|----------------------|-------------|-------------------------------|---|-----------|
| Silicon, amorphous | 112945-52-5 | TWA (Dust) | 20 Million particles per cubic foot (Silica) | OSHA Z-3 |
| | | TWA (Dust) | 80 mg/m ³ / %SiO ₂ (Silica) | OSHA Z-3 |
| | | TWA | 6 mg/m ³ (Silica) | NIOSH REL |
| Cumene hydroperoxide | 80-15-9 | TWA | 1 ppm | US WEEL |
| Cumene | 98-82-8 | TWA | 50 ppm | ACGIH |
| | | TWA | 50 ppm 245 mg/m ³ | NIOSH REL |
| | | TWA | 50 ppm 245 mg/m ³ | OSHA Z-1 |

Hazardous components without workplace control parameters

| Ingredients | CAS-No. |
|---------------------------|----------|
| 2,2'-Ethylenedioxydiethyl | 109-16-0 |

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| dimethacrylate | |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide | 75980-60-8 |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 |
| 2'-Phenylacetohydrazide | 114-83-0 |

Engineering measures : Minimize workplace exposure concentrations. Use with local exhaust ventilation. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m³ - respirable particles, 10 mg/m³ - inhalable particles.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material : Nitrile rubber
 Break through time : > 480 min
 Glove thickness : >= 0.4 mm
 Directive : DIN EN 374
 Protective index : Class 6

Material : Nitrile rubber
 Break through time : > 30 min
 Glove thickness : >= 0.4 mm
 Directive : DIN EN 374
 Protective index : Class 2

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. 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

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end of workday.

Eye 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.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Appearance | : liquid |
| Color | : amber |
| Odor | : like acrylic |
| Odor Threshold | : No data available |
| pH | : No data available |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : > 150 °C |
| Flash point | : > 100 °C |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapor pressure | : < 6.67 mbar (20 °C) |
| Relative vapor density | : No data available |
| Density | : 1.09 g/cm ³ (20 °C) |
| Solubility(ies) | |
| Water solubility | : insoluble |
| Solubility in other solvents | : slightly soluble Solvent: Acetone |

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Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Can react with strong oxidizing agents.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

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: 25.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

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

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Ingredients:**2,2'-Ethylendioxydiethyl dimethacrylate:**

Acute oral toxicity : LD50 (Rat): 8,700 mg/kg
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Mouse): > 2,000 mg/kg

Silicon, amorphous:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Remarks: Based on data from similar materials

Cumene hydroperoxide:

Acute oral toxicity : LD50 (Rat): 1,470 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 0.51 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Expert judgment
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : LD50 (Rabbit): 133.6 mg/kg

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Methacrylic acid, monoester with propane-1,2-diol:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

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

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2'-Phenylacetohydrazide:

Acute oral toxicity : LD50 (Mouse): 270 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 300 - 2,000 mg/kg
Remarks: Based on data from similar materials

Cumene:

Acute oral toxicity : LD50 (Rat): 2,700 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Ingredients:**2,2'-Ethylenedioxydiethyl dimethacrylate:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Silicon, amorphous:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: Based on data from similar materials

Cumene hydroperoxide:

Species: Rabbit
Result: Corrosive after 3 minutes to 1 hour of exposure

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Species: Rabbit
Result: No skin irritation

Methacrylic acid, monoester with propane-1,2-diol:

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

2'-Phenylacetohydrazide:

Species: Rabbit
Result: Skin irritation
Remarks: Based on data from similar materials

Cumene:

Species: Rabbit
Result: No skin irritation

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Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:**2,2'-Ethylenedioxydiethyl dimethacrylate:**

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Silicon, amorphous:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
Remarks: Based on data from similar materials

Cumene hydroperoxide:

Species: Rabbit
Result: Irreversible effects on the eye

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Species: Rabbit
Result: No eye irritation

Methacrylic acid, monoester with propane-1,2-diol:

Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

2'-Phenylacetohydrazide:

Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Remarks: Based on data from similar materials

Cumene:

Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Ingredients:**2,2'-Ethylenedioxydiethyl dimethacrylate:**

Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse

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Method: OECD Test Guideline 429

Result: positive

Assessment: Probability or evidence of low to moderate skin sensitization rate in humans

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: positive

Assessment: Probability or evidence of low to moderate skin sensitization rate in humans

Methacrylic acid, monoester with propane-1,2-diol:

Test Type: Local lymph node assay (LLNA)

Species: Mouse

Result: negative

Assessment: Probability or evidence of skin sensitization in humans

Remarks: Based on data from similar materials

Cumene:

Test Type: Maximization Test

Routes of exposure: Skin contact

Species: Guinea pig

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:**2,2'-Ethylenedioxydiethyl dimethacrylate:**

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

: Test Type: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative

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

Silicon, amorphous:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

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cytogenetic test, chromosomal analysis)
 Species: Rat
 Application Route: Ingestion
 Result: negative
 Remarks: Based on data from similar materials

Cumene hydroperoxide:

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

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
 cytogenetic assay)
 Species: Mouse
 Application Route: Skin contact
 Result: negative

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

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

: 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

Methacrylic acid, monoester with propane-1,2-diol:

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

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
 cytogenetic assay)
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 474
 Result: negative

2'-Phenylacetohydrazide:

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

Cumene:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
 Method: OECD Test Guideline 473
 Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Species: Mouse
 Application Route: Intraperitoneal injection

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Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Suspected of causing cancer.

Ingredients:**Silicon, amorphous:**

Species: Rat
Application Route: Ingestion
Exposure time: 103 weeks
Result: negative
Remarks: Based on data from similar materials

Methacrylic acid, monoester with propane-1,2-diol:

Species: Rat
Application Route: Inhalation
Exposure time: 102 weeks
Result: negative

2'-Phenylacetohydrazide:

Species: Mouse
Application Route: Ingestion
Exposure time: 2 years
Result: positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies (oral)

Cumene:

Species: Rat
Application Route: inhalation (gas)
Exposure time: 105 weeks
Result: negative

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

IARC

Group 2B: Possibly carcinogenic to humans

Cumene 98-82-8

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

Reasonably anticipated to be a human carcinogen

Cumene 98-82-8

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Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Ingredients:**2,2'-Ethylenedioxydiethyl dimethacrylate:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Silicon, amorphous:

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Effects on fertility : Test Type: Fertility
Species: Rat
Application Route: Ingestion
Result: positive

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

Methacrylic acid, monoester with propane-1,2-diol:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

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

Cumene:

Effects on fertility : Species: Rat, male

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Application Route: inhalation (vapor)
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: inhalation (vapor)
Method: OECD Test Guideline 414
Result: negative

STOT-single exposure

May cause respiratory irritation.

Ingredients:**Cumene hydroperoxide:**

Assessment: May cause respiratory irritation.

Methacrylic acid, monoester with propane-1,2-diol:

Assessment: May cause respiratory irritation.

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

Cumene:

Assessment: May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Ingredients:**Cumene hydroperoxide:**

Routes of exposure: inhalation (vapor)

Target Organs: Lungs

Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

Repeated dose toxicity**Ingredients:****2,2'-Ethylenedioxydiethyl dimethacrylate:**

Species: Rat

NOAEL: 1,000 mg/kg

Application Route: Ingestion

Exposure time: 54 Days

Method: OECD Test Guideline 422

Silicon, amorphous:

Species: Rat

NOAEL: 1.3 mg/l

Application Route: inhalation (dust/mist/fume)

Exposure time: 13 Weeks

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Remarks: Based on data from similar materials

Cumene hydroperoxide:

Species: Rat
NOAEL: 0.031 mg/l
Application Route: inhalation (dust/mist/fume)
Exposure time: 90 Days

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Species: Rat
NOAEL: 100 mg/kg
LOAEL: 300 mg/kg
Application Route: Ingestion
Exposure time: 90 Days

Methacrylic acid, monoester with propane-1,2-diol:

Species: Rat
NOAEL: >= 300 mg/kg
Application Route: Ingestion
Exposure time: 49 Days
Method: OECD Test Guideline 422

Cumene:

Species: Rat
NOAEL: 125 ppm
LOAEL: 250 ppm
Application Route: inhalation (vapor)
Exposure time: 90 Days

Aspiration toxicity

Not classified based on available information.

Ingredients:**Cumene:**

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.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Ingredients:****2,2'-Ethylenedioxydiethyl dimethacrylate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 16.4 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

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mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 18.6 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 30.2 mg/l
 Exposure time: 21 d
 Method: OECD Test Guideline 211

Silicon, amorphous:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 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 : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
 Exposure time: 24 h
 Method: OECD Test Guideline 202
 Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 10,000 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 Remarks: Based on data from similar materials

Cumene hydroperoxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 18.84 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 3.1 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): 1 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

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Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

| | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 3.53 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2.01 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| | | EC10 (Pseudokirchneriella subcapitata (green algae)): 1.56 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| Toxicity to bacteria | : | EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 |

Methacrylic acid, monoester with propane-1,2-diol:

| | | |
|--|---|--|
| Toxicity to fish | : | LC50 (Leuciscus idus (Golden orfe)): 493 mg/l Exposure time: 48 h Method: DIN 38412 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 143 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 97.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| | | NOEC (Pseudokirchneriella subcapitata (green algae)): > 97.2 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)): 45.2 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 |
| Toxicity to bacteria | : | EC10 (Pseudomonas putida): 1,140 mg/l |

2'-Phenylacetohydrazide:

| | | |
|------------------------------|---|--|
| Toxicity to fish | : | LC50 (Brachydanio rerio (zebrafish)): > 0.1 - 1 mg/l Exposure time: 96 h Remarks: Based on data from similar materials |
| M-Factor (Acute aquatic tox- | : | 1 |

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icity)

Cumene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.8 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.14 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 2.01 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 1.35 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)): 0.35 mg/l
 Exposure time: 21 d

Persistence and degradability**Ingredients:****2,2'-Ethylenedioxydiethyl dimethacrylate:**

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 85 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

Cumene hydroperoxide:

Biodegradability : Result: Not readily biodegradable.
 Biodegradation: 3 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Biodegradability : Result: Not readily biodegradable.
 Biodegradation: 0 - 10 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F

Methacrylic acid, monoester with propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 81 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301C

2'-Phenylacetohydrazide:

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Biodegradability : Result: Readily biodegradable.
Remarks: Based on data from similar materials

Cumene:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 20 d

Bioaccumulative potential**Ingredients:****2,2'-Ethylenedioxydiethyl dimethacrylate:**

Partition coefficient: n-octanol/water : log Pow: 2.3

Cumene hydroperoxide:

Partition coefficient: n-octanol/water : log Pow: 1.6

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 18 - 72

Partition coefficient: n-octanol/water : log Pow: 3.1 - 3.8

Methacrylic acid, monoester with propane-1,2-diol:

Partition coefficient: n-octanol/water : log Pow: 0.97

Cumene:

Partition coefficient: n-octanol/water : log Pow: 3.55

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

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SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

UN/ID No. : UN 3334
Proper shipping name : Aviation regulated liquid, n.o.s.
 (Hidroperoxido de cumilo)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo : 964
aircraft)
Packing instruction : 964
(passenger aircraft)

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation**49 CFR**

UN/ID/NA number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
 N.O.S.
 (Hidroperoxido de cumilo)
Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171
Marine pollutant : no
Remarks : THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE
 SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS
 THE REPORTABLE QUANTITY.

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

| Ingredients | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|----------------------|-----------|-----------------------|--------------------------------|
| Cumene hydroperoxide | 80-15-9 | 10 | 500 |
| Cumene | 98-82-8 | 5000 | * |
| Phosphoric acid | 7664-38-2 | 5000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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| | | | |
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SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|----------------------|---------|----------|
| Cumene hydroperoxide | 80-15-9 | 1.9999 % |
|----------------------|---------|----------|

US State Regulations**Pennsylvania Right To Know**

| | |
|--|--------------|
| Acrylated urethane polyol | Not Assigned |
| Lauryl methacrylate | 142-90-5 |
| 2,2'-Ethylenedioxydiethyl dimethacrylate | 109-16-0 |
| Acrylate ester | Not Assigned |
| Silicon, amorphous | 112945-52-5 |
| Cumene hydroperoxide | 80-15-9 |
| Cumene | 98-82-8 |
| Phosphoric acid | 7664-38-2 |
| 1,2-Benzisothiazol-3(2H)-one 1,1-dioxide | 81-07-2 |

California Prop. 65 WARNING! This product contains a chemical known in the State of California to cause cancer.

| | |
|--------|---------|
| Cumene | 98-82-8 |
|--------|---------|

California Permissible Exposure Limits for Chemical Contaminants

| | | |
|--|--------------------|-------------|
| | Silicon, amorphous | 112945-52-5 |
|--|--------------------|-------------|

California List of Acutely Hazardous Chemicals, Toxics and Reactives

| | | |
|--|----------------------|---------|
| | Cumene hydroperoxide | 80-15-9 |
|--|----------------------|---------|

The ingredients of this product are reported in the following inventories:

TSCA All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

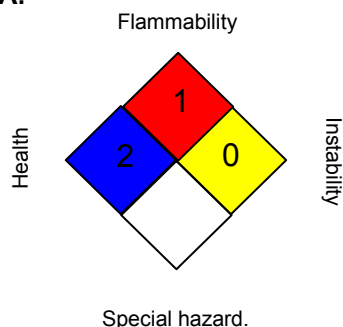
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

| | |
|-----------------|-----------|
| HEALTH | 2* |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Full text of other abbreviations

| | |
|-----------------|---|
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| NIOSH REL | : USA. NIOSH Recommended Exposure Limits |
| OSHA Z-1 | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| OSHA Z-3 | : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts |
| US WEEL | : USA. Workplace Environmental Exposure Levels (WEEL) |
| ACGIH / TWA | : 8-hour, time-weighted average |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA Z-1 / TWA | : 8-hour time weighted average |
| OSHA Z-3 / TWA | : 8-hour time weighted average |
| US WEEL / TWA | : 8-hr TWA |

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EC_x - Concentration associated with x% response; EHS - Extremely Hazardous Substance; EL_x - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC_x - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Ob-

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served (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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

Revision Date : 05/25/2016

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

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

US / Z8

BMW Group

FLANGE SEALANT LOCTITE 193140

P/N 83 19 0 439 030

FOR INDUSTRIAL USE ONLY. Read SDS prior to use.

See container label for all Warnings, Precautions and Response information.

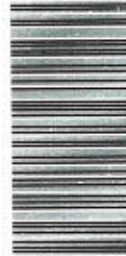
INNER CONTAINER NOT LABELED FOR RESALE.

WARNING: Causes serious eye irritation. May cause respiratory irritation or allergic skin reaction. Suspected of causing cancer and of damaging fertility or the unborn child. May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled. Keep out of reach of children.

WARNING: This product contains a chemical known to the State of California to cause cancer.

For 24 hour emergency assistance, call the 3E Company at 1-877-472-1724. Please provide tracking code: 9457.

Distributed by:
BMW of North America, L.L.C.
Woodcliff Lake, NJ 07677
Made in Ireland.



83 19 0 439 030

6 g (0.21 oz)

BMW Group FLANGE SEALANT LOCTITE 193140 P/N 83 19 0 439 030

WARNING: Causes serious eye irritation. May cause respiratory irritation or allergic skin reaction. Suspected of causing cancer and of damaging fertility or the unborn child. May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapors. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned, eye irritation/persists or skin irritation/fresh occurs: Get medical attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant. Keep out of reach of children.

CONTAINS: 2,2'-Ethylenedioxydiethyl (109-16-0), silicon, amorphous (112345-52-5), cumene hydroperoxide (80-15-9), diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-80-8), methacrylic acid, monomer with propane-1,2-diol (27813-02-1), 2'-phenylacetohydrazone (114-83-0), cumene (98-82-8). For 24 hour emergency assistance, call the 3E Company at 1-877-472-1724. Please provide tracking code: 9457. **Distributed by:** BMW of North America, L.L.C., Woodcliff Lake, NJ 07677