

# SAFETY DATA SHEET

## AC DELCO SEALING COMPOUND

Infosafe No.: LQ2E9  
ISSUED Date: 25/09/2015  
ISSUED BY ACDELCO

### 1. IDENTIFICATION

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**GHS Product Identifier**

AC DELCO SEALING COMPOUND

**Product Code**

465462-AU10

**Company Name**

ACDELCO

**Address**

191 Salmon Street Port Melbourne Melbourne  
VIC 3207 Australia

**Emergency phone number**

1800 638 556 (24hrs)

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

Fuel resistant coating. For industrial or professional use only.

### 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Classified as hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

**GHS Classification:**

Acute toxicity - Dermal category 4

Acute toxicity - Inhalation category 4

Acute toxicity - Oral category 4

Eye damage/irritation 1

Flammable Liquid category 2

Germ cell mutagenicity category 2

Skin corrosion/irritation category 1B

STOT single exposure category 3 - respiratory tract irritation

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

## Pictogram (s)

Corrosion, Exclamation mark, Flame, Health hazard



### Precautionary statement – Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/{}equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash contaminated skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.

### Precautionary statement – Response

- P310 Immediately call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P308+P313 IF exposed or concerned: Get medical advice/ attention.
- P370+P378 In case of fire: Use dry chemical, alcohol resistant foam and carbon dioxide for extinction.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P363 Wash contaminated clothing before reuse.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### Precautionary statement – Storage

- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.

### Precautionary statement – Disposal

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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## Ingredients

Name	CAS	Proportion
4-Methylpentan-2-one	108-10-1	40-70 %
BUTANONE	78-93-3	5-10 %
Ethanol	64-17-5	5-10 %
Phenol	108-95-2	1-5 %
Ethyl acetate	141-78-6	0.1-1 %
Methanol	67-56-1	0.1-1 %
Ingredients determined not to be hazardous		Balance

## 4. FIRST-AID MEASURES

### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

### Skin

Remove all contaminated clothing immediately. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

### Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

### Advice to Doctor

Treat symptomatically.

### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide and alcohol resistant foam).

### Unsuitable Extinguishing Media

Do not use water jet.

### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

### Special Protective Equipment for fire fighters

Protection of fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### Specific Hazards Arising From The Chemical

Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

### Hazchem Code

•3WE

### **Decomposition Temperature**

Not available

### **Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedures**

Remove all sources of ignition. Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe mist/vapour. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by collecting the material using explosion proof vacuum and transfer into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Corrosive and flammable liquid. Attacks skin and eyes. Causes burns. Avoid breathing in vapours, mist or fumes. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Keep containers tightly closed. Keep material away from sparks, flames and other ignition sources. Do not use near ignition sources. Use explosion-proof equipment. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Prevent the build up of mists or vapours in the work atmosphere. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood.

### **Conditions for safe storage, including any incompatibilities**

Corrosive and flammable liquid for storage and handling purposes. Keep tightly closed in a dry, cool, well-ventilated area, out of direct sunlight. Provide a catch-tank in a bunded area. Avoid sparks, flames and other ignition sources. Store away from incompatible materials. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances and Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

4-methylpentan-2-one

TWA: 50 ppm

TWA: 205 mg/m<sup>3</sup>

STEL: 75 ppm

STEL: 307 mg/m<sup>3</sup>

Butanone

TWA: 150 ppm

TWA: 445 mg/m<sup>3</sup>

STEL: 300 ppm

STEL: 890 mg/m<sup>3</sup>

Ethanol

TWA: 1000 ppm

TWA: 1880 mg/m<sup>3</sup>

Phenol

TWA: 1 ppm

TWA: 4 mg/m<sup>3</sup>

Ethyl acetate

TWA: 200 ppm

TWA: 720 mg/m<sup>3</sup>

STEL: 400 ppm

STEL: 1440 mg/m<sup>3</sup>

Methanol

TWA: 200 ppm

TWA: 262 mg/m<sup>3</sup>

STEL: 250 ppm

STEL: 328 mg/m<sup>3</sup>

Notices: Sk

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

### Biological Limit Values

Name: 4-Methylpentan-2-one

Determinant: Methyl isobutyl ketone in urine

Value: 1 mg/L

Sampling time: End of shift

Name: BUTANONE

Determinant: Methyl ethyl ketone in urine

Value: 2 mg/L

Sampling time: End of shift

Notation: Ns

Name: Phenol

Determinant: Phenol in urine

Value: 250 mg/g creatinine

Sampling time: End of shift  
Notation: B, Ns

Name: Methanol  
Determinant: Methanol in urine  
Value: 15 mg/L  
Sampling time: End of shift  
Notation: B, Ns  
Source: American Conference of Industrial Hygienists (ACGIH)

#### Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

#### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

#### Eye Protection

Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

#### Hand Protection

Wear gloves of impervious material such as butyl rubber, neoprene, polymer laminate, polyvinyl alcohol. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

#### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear, amber liquid; solvent odour.
Colour	Clear, amber	Odour	Solvent odour
Decomposition Temperature	Not available	Melting Point	Not available
Freezing Point	Not available	Boiling Point	79.44°C Estimated condition: at 1 ATM
Solubility in Water	Not available	Specific Gravity	0.899 (Water=1)
pH	Not available	Vapour Pressure	80 mmHg Estimated condition: at 20°C
Vapour Density (Air=1)	2.5 (Air=1)	Evaporation Rate	2.7 (Ether=1)
Odour Threshold	Not available	Viscosity	1050 - 1750 centipoise Brookfield condition: at 20°C
Volatile Component	Volatile organic compounds (VOC) content: 669 g/L	Partition Coefficient: n-octanol/water	Not available
Density	Not available	Flash Point	10 °C [Test method: closed cup]

Properties	Description	Properties	Description
			Conditions: at 1 ATM
<b>Flammability</b>	Highly flammable liquid	<b>Auto-Ignition Temperature</b>	448.89°C Estimated
<b>Flammable Limits - Lower</b>	1.8 % VOL Estimated conditions: at 20°C	<b>Flammable Limits - Upper</b>	11.5 % VOL Estimated conditions: at 20°C

#### Other Information

Percent Volatile: 76 % by wt

## 10. STABILITY AND REACTIVITY

#### Chemical Stability

Stable under normal conditions of storage and handling.

#### Reactivity and Stability

Reacts with incompatible materials.

#### Conditions to Avoid

Heat, open flames and other sources of ignition.

#### Incompatible materials

Strong oxidising agents and strong acids.

#### Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

#### Possibility of hazardous reactions

Not available

#### Hazardous Polymerization

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

#### Toxicology Information

No toxicity data available for this material.

#### Ingestion

Harmful if swallowed. Ingestion of this product will cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

#### Inhalation

Harmful if inhaled. Inhalation will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema. May cause respiratory irritation. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

#### Skin

Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

#### Eye

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

#### Respiratory sensitisation

Not expected to be a respiratory sensitiser.

#### Skin Sensitisation

Not expected to be a skin sensitiser.

#### Germ cell mutagenicity

Suspected of causing genetic defects. Classified as suspected to induce heritable mutations.

#### Carcinogenicity

Not considered to be a carcinogenic hazard.

Ethanol is listed as a Group 1: Carcinogenic to humans according to International Agency for Research on Cancer (IARC).

4-Methylpentan-2-one is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Phenol is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Other Information**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, uncoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Prolonged or repeated exposure may cause: Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate. Kidney/Bladder Effects: signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

No ecological data available for this material.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

**Disposal considerations**

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain flammable residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.

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## 14. TRANSPORT INFORMATION

**Transport Information**

Road and Rail Transport (ADG Code):

This product is classified as Dangerous Goods Class 3 Flammable Liquids and subsidiary Class 8 Corrosive Substances.

Dangerous Goods are incompatible in a placard load with any of the following:



- Class 1: Explosives
- Division 2.1: Flammable Gases  
(Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L)
- Division 2.3: Toxic Gases
- Division 4.2: Spontaneously Combustible Substances
- Division 4.3: Dangerous when wet Substances
- Division 5.1: Oxidising substances
- Division 5.2: Organic Peroxides
- Class 6: Toxic or Infectious Substances  
(where the flammable liquid is nitromethane or where the Toxic substances are cyanides and the corrosives are acids)
- Class 7: Radioactive materials unless specifically exempted
- Class 8: Corrosive substances  
(concentrated strong acid is to be segregated from concentrated strong alkali)  
and are incompatible with food and food packaging in any quantity.

**Marine Transport (IMO/IMDG):**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 3

UN No: 3469

Proper Shipping Name: PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound)

Packing Group: II

EMS: F-E, S-C

Special Provisions: 163, 367

**Air Transport (ICAO/IATA):**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division: 3

UN No: 3469

Proper Shipping Name: Paint, flammable, corrosive (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or paint related material, flammable, corrosive (including paint thinning or reducing compound)

Packing Group: II

Packaging Instructions (passenger & cargo): 352

Packaging Instructions (cargo only): 363

Hazard Label: Flammable liquid corrosive

Special Provisions: A3, A72, A192, A803

**U.N. Number**

3469

**UN proper shipping name**

PAINT, FLAMMABLE, CORROSIVE (including patin, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

**Transport hazard class(es)**

3

**Sub.Risk**

8

**Packing Group**

II

**Hazchem Code**

•3WE

**Special Precautions for User**

Not available

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

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**15. REGULATORY INFORMATION**

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

S5

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**16. OTHER INFORMATION**

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**Date of preparation or last revision of SDS**

SDS Reviewed: September 2015

Supersedes: June 2013

**References**

- Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
- Standard for the Uniform Scheduling of Medicines and Poisons.
- Australian Code for the Transport of Dangerous Goods by Road & Rail.
- Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
- Workplace exposure standards for airborne contaminants, Safe work Australia.
- American Conference of Industrial Hygienists (ACGIH).
- Globally Harmonised System of classification and labelling of chemicals.

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**END OF SDS**

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