



1801 Morgan Street  
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 www.gcelectronics.com

SDS Number: 322  
 Revision Date: 08/18/2015  
 Supersedes Date: 03/14/2014

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BOND**

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type:	Solvent Release Adhesive	<b>Emergency Contact:</b>	<b>Chemtrec</b>
Product Name:	<b>GC BOND</b>	<b>Phone:</b>	<b>(800) 424-9300</b>
Part Number(s):	<b>10-4302-B</b>		

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Flammable liquids	: Category 2	Carcinogenicity	: Category 1B
Skin irritation	: Category 2	Specific target organ systemic toxicity - single exposure	: Category 3 (Central nervous system)
Eye irritation	: Category 2A		
Skin sensitization	: Category 1	Specific target organ systemic toxicity - repeated exposure	: Category 2 (Skin, Nervous system, Liver, Kidney)

**GHS Label element**

Hazard pictograms :   

Signal Word : Danger

Hazard Statements : Highly flammable liquid and vapor.  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May cause drowsiness or dizziness.  
 May cause cancer.  
 May cause damage to organs (Skin, Nervous system, Liver, Kidney) through prolonged or repeated exposure.



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### SECTION 2. HAZARDS IDENTIFICATION (CONTINUED)

Precautionary Statements : **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
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/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician 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: Get medical advice/ attention.  
If skin irritation or rash occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.



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#### SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

Chemical nature : Defatter

##### Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
ACETONE	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	71.76
METHYL ETHYL KETONE	78-93-3	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	4.75
CALCIUM CARBONATE	471-34-1		2.89
PHENOL	108-95-2	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 STOT RE 2; H373	1.02
FORMALDEHYDE	50-00-0	Flam. Liq. 4; H227 Acute Tox. 3; H301	0.12



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### SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS (CONTINUED)

		Acute Tox. 3; H331	
		Acute Tox. 3; H311	
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
		Carc. 1B; H350	

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious place in recovery position and seek medical advice.  
Consult a physician after significant exposure.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.



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### SECTION 4. FIRST AID MEASURES (CONTINUED)

- If swallowed : Obtain medical attention.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Do not induce vomiting. Phenol concentrations greater than 1.5% produce irritation and greater than 5% are corrosive; vomiting can cause further damage to the mouth and throat.  
Do not dilute the swallowed material, since this may enhance its absorption. Seek immediate medical attention. If possible, do not leave the individual unattended. Vomiting and diarrhea may occur spontaneously.
- Most important symptoms and effects, both acute and delayed : This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion.  
Ingestion of large amounts or other significant exposure to this material (or a component) may cause alkalosis.  
Excessive calcium intake may cause gastrointestinal symptoms, hypertension, hypercalcemia, kidney stones, and may inhibit absorption of iron, zinc, and possibly other trace elements.  
Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.  
Pulmonary edema may be delayed.  
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Cough  
low body temperature  
irregular heartbeat  
cyanosis (causes blue coloring of the skin and nails from lack of oxygen)  
lung edema (fluid buildup in the lung tissue)  
Convulsions  
respiratory failure  
Difficulty in breathing  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.



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#### SECTION 4. FIRST AID MEASURES (CONTINUED)

May cause cancer.  
May cause damage to organs through prolonged or repeated exposure.

Notes to physician : Phenol adsorbs to activated charcoal, and it maybe preferable to ipecac-induced emesis because seizures or coma may onset rapidly and because of the corrosive effects of phenol. A usual activated charcoal dose in adults is 30-100 g and in children is 15-30 g. Activated charcoal should be administered with, or followed by, a cathartic. If endoscopy is planned, charcoal may obscure visualization of affected areas. Gastric lavage may be indicated if it is performed soon after ingestion or in patients who are comatose or at risk of seizures. Monitor for seizures, metabolic acidosis and ventricular dysrhythmias.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrogen cyanide (hydrocyanic acid)  
nitrogen oxides (NO<sub>x</sub>)  
calcium oxide  
acid vapors



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#### SECTION 5. FIRE-FIGHTING MEASURES (CONTINUED)

- Specific extinguishing methods :  
Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Other information : Comply with all applicable federal, state, and local regulations.  
Suppress (knock down) gases/vapours/mists with a water spray jet.



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**SAFETY DATA SHEET**

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**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Open drum carefully as content may be under pressure.  
 Avoid formation of aerosol.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
 Container hazardous when empty.  
 Take precautionary measures against static discharges.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Observe label precautions.  
 No smoking.  
 Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis





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### SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION (CONTINUED)

ACETONE	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		REL	250 ppm 590 mg/m <sup>3</sup>	NIOSH/GUID E
		PEL	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA_TRA NS
		TWA	250 ppm	ACGIHLIS_P
		STEL	500 ppm	ACGIHLIS_P
		TWA	750 ppm 1,800 mg/m <sup>3</sup>	Z1A
		STEL	1,000 ppm 2,400 mg/m <sup>3</sup>	Z1A
METHYL ETHYL KETONE	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		REL	200 ppm 590 mg/m <sup>3</sup>	NIOSH/GUID E
		STEL	300 ppm 885 mg/m <sup>3</sup>	NIOSH/GUID E
		PEL	200 ppm 590 mg/m <sup>3</sup>	OSHA_TRA NS
CALCIUM CARBONATE	471-34-1	PEL	5 mg/m <sup>3</sup> Respirable fraction.	OSHA_TRA NS
		PEL	15 mg/m <sup>3</sup> Total dust.	OSHA_TRA NS
		REL	5 mg/m <sup>3</sup> Respirable.	NIOSH/GUID E
		REL	10 mg/m <sup>3</sup> Total	NIOSH/GUID E
PHENOL	108-95-2	TWA	5 ppm	ACGIH
		REL	5 ppm 19 mg/m <sup>3</sup>	NIOSH/GUID E
		Ceil_Time	15.6 ppm 60 mg/m <sup>3</sup>	NIOSH/GUID E
		PEL	5 ppm 19 mg/m <sup>3</sup>	OSHA_TRA NS
		TWA	5 ppm 19 mg/m <sup>3</sup>	TN OEL



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### SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION (CONTINUED)

FORMALDEHYDE	50-00-0	Ceiling	0.3 ppm	ACGIH
		REL	0.016 ppm	NIOSH/GUID E
		Ceil_Time	0.1 ppm	NIOSH/GUID E
		TWA	0.75 ppm	OSHASP
		STEL	2 ppm	OSHASP
		OSHA_ACT	0.5 ppm	OSHASP
		Ceiling	0.3 ppm	ACGIHLIS_P

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
ACETONE	67-64-1	acetone	Urine	Sampling time: End of shift.	50 mg/l	
Remarks:	Nonspecific					
METHYL ETHYL KETONE	78-93-3	methylEthyl Ketone	Urine	Sampling time: End of shift.	2 mg/l	ACGIH BEI
Remarks:	Nonspecific					
PHENOL	108-95-2	Phenol with hydrolysis	Creatinine in urine	Sampling time: End of shift.	250 mg/g	
Remarks:	Background, Nonspecific					

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

**Respiratory protection** : In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has



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### SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION (CONTINUED)

otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

: Wear as appropriate:  
impervious clothing  
Safety shoes  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Discard gloves that show tears, pinholes, or signs of wear.  
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.



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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid	Relative vapour density	: No data available
Colour	: tan	Relative density	: 0.8577 (77.00 °F)
Odour	: No data available	Density	: 0.8577 g/cm <sup>3</sup> (77.00 °F)
Odour Threshold	: No data available	Solubility(ies)	
pH	: No data available	Water solubility	: No data available
Melting point/freezing point	: No data available	Solubility in other solvents	: No data available
Boiling point/boiling range	: No data available	Partition coefficient: n-octanol/water	: No data available
Flash point	: -4 °F / -20 °C Method: Seta closed cup	Thermal decomposition	: No data available
Evaporation rate	: 1 Ethyl Ether	Viscosity	
Flammability (solid, gas)	: No data available	Viscosity, dynamic	: 600 mPa.s
Upper explosion limit	: No data available	Viscosity, kinematic	: No data available
Lower explosion limit	: No data available	Oxidizing properties	: No data available
Vapour pressure	: No data available		

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. Formaldehyde reacts with peroxides, phenol, strong acids, amines and strong oxidizing agents. Formaldehyde reacts violently with nitrogen dioxide, nitromethane, perchloric acid, perchloric acid-aniline mixtures, or peroxyformic acid to yield explosive compounds. It reacts with hydrochloric acid or to organic chlorides to form the carcinogen, bis(chloromethyl)ether.



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### SECTION 10. STABILITY AND REACTIVITY (CONTINUED)

Conditions to avoid : Heat, flames and sparks. Hazardous decomposition products acid vapors  
excessive heat calcium oxide  
carbon dioxide and carbon monoxide

Incompatible materials : 1,3-butadiene  
Acids alkalis  
ammonium salts  
aluminum  
aluminum salts  
Amines  
Ammonia  
Copper  
Copper alloys  
halogenated hydrocarbons  
halogens  
Iron Lead  
magnesium  
peroxides  
Reducing agents  
strong alkalis  
Strong oxidizing agents  
Zinc

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Components:

##### ACETONE:

Acute oral toxicity : LD 50 (Rat, female): 5,800 mg/kg

Acute inhalation toxicity : LC 50 (Rat, female): 76 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD 50 (Rabbit): > 7,426 mg/kg

##### METHYL ETHYL KETONE:

Acute oral toxicity : LD 50 (Rat): 2,300 - 3,500 mg/kg



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#### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

- Acute dermal toxicity : LD 50 (Rabbit): > 5 g/kg
- CALCIUM CARBONATE:  
Acute oral toxicity : LD 50 (Rat): 6,450 mg/kg
- Acute inhalation toxicity : LC 50 (Rat): > 3 mg/l  
Exposure time: 4 h  
Method: OECD Test Guideline 403  
Assessment: Not classified as acutely toxic by inhalation under GHS.  
Remarks: Aerosol
- Acute dermal toxicity : LD 50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402
- PHENOL:  
Acute oral toxicity : LD 50 (Rat): 317 mg/kg  
LD 50 (Mouse): 270 mg/kg  
Assessment: The component/mixture is classified as acute oral toxicity, category 3.
- Acute inhalation toxicity : Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.
- Acute dermal toxicity : LD 50 (Rabbit): 850 mg/kg  
LD50 (Rat, females): 660 mg/kg  
Method: OECD Test Guideline 402
- FORMALDEHYDE:  
Acute oral toxicity : LD 50 (Guinea pig): 260 mg/kg  
LD 50 (Rat): 100 mg/kg  
LD 50 (Rat, Male): 800 mg/kg  
Assessment: The component/mixture is classified as acute oral toxicity, category 3.
- Acute inhalation toxicity : LC 50 (Rat): 588 mg/m<sup>3</sup>  
Exposure time: 4 h  
Test atmosphere: gas  
Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.
- Acute dermal toxicity : LD 50 (Rabbit): 288 mg/kg



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### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

#### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

#### **Components:**

ACETONE:

Result: Mildly irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

METHYL ETHYL KETONE:

Result: Not irritating to skin

CALCIUM CARBONATE:

Result: Not irritating to skin

PHENOL:

Result: Corrosive to skin

FORMALDEHYDE:

Result: Causes burns.

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

Causes serious eye irritation.

#### **Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

#### **Components:**

ACETONE:

Result: Irritating to eyes

METHYL ETHYL KETONE:

Result: Irritating to eyes

CALCIUM CARBONATE:

Result: Not irritating to eyes



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### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

**PHENOL:**

Result: Corrosive to eyes

**FORMALDEHYDE:**

Result: Corrosive to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

**Components:**

**FORMALDEHYDE:**

Result: Does not cause respiratory sensitisation.

Result: May cause sensitisation by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**PHENOL:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test species: Chinese hamster ovary cells  
Metabolic activation: with metabolic activation  
Method: OECD Test Guideline 473  
Result: positive

: Test Type: Micronucleus test  
Test species: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: positive

Genotoxicity in vivo : Test Type: Micronucleus test  
Test species: Mouse (male and female)  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: positive

**FORMALDEHYDE:**

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: without metabolic activation  
Result: positive





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## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BOND**

### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

- : Test Type: Chromosome aberration test in vitro  
Test species: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Result: positive
- : Test Type: In vitro mammalian cell gene mutation test  
Test species: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Result: negative
- : Test Type: in vitro assay  
Test species: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Result: Conflicting results have been seen in different studies.

Genotoxicity in vivo

- : Test Type: Micronucleus test  
Test species: Mouse  
Application Route: Oral  
Result: negative
- : Test Type: Mammalian bone marrow sister chromatid exchange  
Test species: Rat  
Application Route: inhalation (gas)  
Result: negative
- : Test Type: Micronucleus test  
Test species: Mouse  
Application Route: inhalation (gas)  
Result: negative
- : Test Type: comet assay  
Test species: Rat  
Application Route: inhalation (gas)  
Result: negative
- : Test Type: in vivo assay  
Test species: Rat  
Application Route: inhalation (gas)  
Result: negative
- : Test Type: Mouse specific locus test  
Test species: Mouse  
Application Route: inhalation (gas)  
Result: negative



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### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

#### **Carcinogenicity**

May cause cancer.

#### **Components:**

FORMALDEHYDE:

Species: Rat

Application Route: Ingestion

Result: negative

Species: Mouse

Application Route: Dermal

Result: negative

Species: Rat

Application Route: Inhalation

Result: positive

Carcinogenicity - Assessment : Presumed to have carcinogenic potential for humans

#### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

FORMALDEHYDE:

Effects on fertility : Remarks: No data available

Effects on foetal development : Species: Rat

Result: No teratogenic effects

#### **STOT - single exposure**

May cause drowsiness or dizziness.

#### **Components:**

ACETONE:

Exposure routes: Inhalation

Target Organs: Nervous system

Assessment: May cause drowsiness or dizziness.

METHYL ETHYL KETONE:

Assessment: May cause drowsiness or dizziness.

#### **STOT - repeated exposure**

May cause damage to organs (Skin, Nervous system, Liver, Kidney) through prolonged or repeated exposure.



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### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

**Components:**

PHENOL:

Target Organs: Skin

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Liver

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity**

**Components:**

FORMALDEHYDE:

Species: Rat

No observed adverse effect level: 82 mg/kg

Application Route: Ingestion

Species: Rat

No observed adverse effect level: 1.2 mg/m<sup>3</sup>

Application Route: inhalation (gas)

Target Organs: Nose, Upper respiratory tract

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Components:**

ACETONE:

May be harmful if swallowed and enters airways.

METHYL ETHYL KETONE:

May be harmful if swallowed and enters airways.

**Further information**

**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.



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**SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)**

**Components:**

METHYL ETHYL KETONE: Remarks: Central nervous system	<b>Carcinogenicity:</b> <b>IARC</b>	Group 1: Carcinogenic to humans
PHENOL: Remarks: Central nervous system	<b>OSHA</b>	FORMALDEHYDE 50-00-0 OSHA specifically regulated carcinogen
Remarks: Blood	<b>NTP</b>	FORMALDEHYDE 50-00-0 Known to be human carcinogen
		FORMALDEHYDE 50-00-0

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

ACETONE:	
Toxicity to fish	: LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 4,740 - 6,330 mg/l Exposure time: 96 h Test Type: static test
	LC 50 (Fathead minnow (Pimephales promelas)): 8,733 - 9,482 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to algae	: NOEC (Microcystis aeruginosa): 530 mg/l Exposure time: 8 d Test Type: static test
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 2,112 mg/l Exposure time: 28 d Test Type: flow-through test



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### SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

#### METHYL ETHYL KETONE:

Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 3,130 - 3,320 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): 4,025 - 6,440 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: Intoxication

#### CALCIUM CARBONATE:

Toxicity to fish : LC 50 (*Gambusia affinis* (Mosquito fish)): > 56,000 mg/l  
Exposure time: 96 h  
Test Type: static test

#### PHENOL:

Toxicity to fish : LC 50 (*Oncorhynchus mykiss* (rainbow trout)): 7.5 - 14 mg/l  
Exposure time: 96 h  
Test Type: static test

LC 50 (Fathead minnow (*Pimephales promelas*)): 67.5 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

LC 50 (*Danio rerio* (zebra fish)): 27.8 mg/l  
Exposure time: 96 h  
Method: Static  
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (*Ceriodaphnia dubia*)): 3.1 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 61.1 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.077 mg/l  
Exposure time: 60 d  
Test Type: semi-static test



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### SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Water flea (*Daphnia magna*)): 0.16 mg/l  
Exposure time: 16 d  
Test Type: semi-static test

#### FORMALDEHYDE:

Toxicity to fish : LC 50 (*Danio rerio* (zebra fish)): 41 mg/l  
Exposure time: 96 h  
Method: Static  
Remarks: Mortality

LC 50 (*Striped bass* (*Morone saxatilis*)): 6.7 mg/l  
Exposure time: 96 h  
Method: Static

Toxicity to daphnia and other aquatic invertebrates : EC 50 (*Water flea* (*Daphnia magna*)): 29 mg/l  
Exposure time: 48 h  
Method: Static  
Remarks: Intoxication

EC 50 (*Water flea* (*Daphnia pulex*)): 5.8 mg/l  
Exposure time: 48 h

Toxicity to algae : ErC50 (*Desmodesmus subspicatus*): 4.89 mg/l  
Exposure time: 72 h

Toxicity to bacteria : EC 50 (activated sludge): 19 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition

#### Persistence and degradability

##### Components:

##### ACETONE:

Biodegradability : Result: Readily biodegradable  
Biodegradation: 90.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### PHENOL:

Biodegradability : Result: Readily biodegradable  
Biodegradation: 62 %  
Exposure time: 100 h  
Method: OECD Test Guideline 301C



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## SAFETY DATA SHEET

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**Product Name: GC BOND**

### SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

#### FORMALDEHYDE:

Biodegradability : aerobic  
Result: Readily biodegradable  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

aerobic  
Result: Readily biodegradable  
Biodegradation: > 90 %  
Exposure time: 2 Weeks  
Method: OECD Test Guideline 301C

Photodegradation :

#### Bioaccumulative potential

##### Components:

#### ACETONE:

Partition coefficient: n-octanol/water : log Pow: -0.24

#### METHYL ETHYL KETONE:

Partition coefficient: n-octanol/water : log Pow: 0.29

#### PHENOL:

Partition coefficient: n-octanol/water : log Pow: 1.46

#### FORMALDEHYDE:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0.35 (25 °C)

#### Mobility in soil

##### Components:

No data available

#### Other adverse effects



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**SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)**

**Product:**

Additional ecological information : No data available

**Components:**

FORMALDEHYDE:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : Do not dispose of waste into sewer.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Send to a licensed waste management company.  
 Dispose of in accordance with all applicable local, state and federal regulations.

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

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

**U.S. DOT - ROAD**

UN	1133	Adhesives	3	II
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### SECTION 14. TRANSPORT INFORMATION (CONTINUED)

#### U.S. DOT - RAIL

UN	1133	Adhesives	3	II
----	------	-----------	---	----

#### U.S. DOT - INLAND WATERWAYS

UN	1133	Adhesives	3	II
----	------	-----------	---	----

#### TRANSPORT CANADA - ROAD

UN	1133	ADHESIVES	3	II
----	------	-----------	---	----

#### TRANSPORT CANADA - RAIL

UN	1133	ADHESIVES	3	II
----	------	-----------	---	----

#### TRANSPORT CANADA - INLAND WATERWAYS

UN	1133	ADHESIVES	3	II
----	------	-----------	---	----

#### INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1133	ADHESIVES	3	II
----	------	-----------	---	----

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1133	Adhesives	3	II
----	------	-----------	---	----

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1133	Adhesives	3	II
----	------	-----------	---	----

#### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1133	ADHESIVOS	3	II
----	------	-----------	---	----



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**Product Name: GC BOND**

**SECTION 14. TRANSPORT INFORMATION (CONTINUED)**

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
------------------	----

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ACETONE	67-64-1	5000	6967.670011

**SARA 311/312 Hazards** : Acute Health Hazard  
 Chronic Health Hazard  
 Fire Hazard

**SARA 313 Component(s)**

PHENOL	108-95-2	1.02 %
FORMALDEHYDE	50-00-0	0.12 %

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

FORMALDEHYDE	50-00-0
VINYLCYCLOHEXENE, 4-	100-40-3
BENZENE	71-43-2
ACRYLONITRILE	107-13-1
1,3, BUTADIENE	106-99-0



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### SECTION 15. REGULATORY INFORMATION (CONTINUED)

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

VINYLCYCLOHEXENE, 4- 100-40-3

BENZENE 71-43-2

1,3, BUTADIENE 106-99-0

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

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AUSTR : On the inventory, or in compliance with the inventory
- NZIOC : On the inventory, or in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECL : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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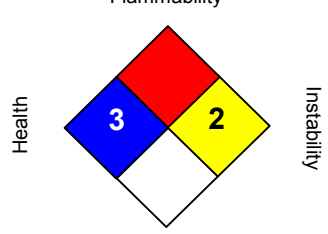
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### SECTION 16. OTHER INFORMATION

**Further information**

Revision Date: 05/26/2015

<p><b>NFPA:</b></p> <div style="text-align: center;"> <p>Flammability</p>  <p>Health      Instability</p> <p>Special hazard.</p> </div>	<p><b>HMIS III:</b></p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="background-color: blue; color: white; padding: 5px;"><b>HEALTH</b></td> <td style="padding: 5px;"><b>3*</b></td> </tr> <tr> <td style="background-color: red; color: white; padding: 5px;"><b>FLAMMABILITY</b></td> <td style="padding: 5px;"><b>3</b></td> </tr> <tr> <td style="background-color: yellow; padding: 5px;"><b>PHYSICAL HAZARD</b></td> <td style="padding: 5px;"><b>2</b></td> </tr> </table> <p style="font-size: small;">0 = not significant, 1 =Slight,        2 = Moderate, 3 = High        4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>3*</b>	<b>FLAMMABILITY</b>	<b>3</b>	<b>PHYSICAL HAZARD</b>	<b>2</b>
<b>HEALTH</b>	<b>3*</b>						
<b>FLAMMABILITY</b>	<b>3</b>						
<b>PHYSICAL HAZARD</b>	<b>2</b>						

**NFPA Flammable and Combustible Liquids Classification**  
 not determined

**Full text of H-Statements referred to under sections 2 and 3.**

- H225      Highly flammable liquid and vapor.
- H227      Combustible liquid.
- H301      Toxic if swallowed.
- H311      Toxic in contact with skin.
- H314      Causes severe skin burns and eye damage.
- H317      May cause an allergic skin reaction.
- H318      Causes serious eye damage.
- H319      Causes serious eye irritation.
- H331      Toxic if inhaled.
- H336      May cause drowsiness or dizziness.
- H350      May cause cancer.
- H373      May cause damage to organs through prolonged or repeated exposure.



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### SECTION 16. OTHER INFORMATION (CONTINUED)

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
BEI : Biological Exposure Index  
CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
FG : Food grade  
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
H-statement : Hazard Statement  
IATA : International Air Transport Association.  
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
IMDG : International Maritime Code for Dangerous Goods  
ISO : International Organization for Standardization  
logPow : octanol-water partition coefficient  
LCxx : Lethal Concentration, for xx percent of test population  
LDxx : Lethal Dose, for xx percent of test population.  
ICxx : Inhibitory Concentration for xx of a substance  
Ecxx : Effective Concentration of xx  
N.O.S.: Not Otherwise Specified  
OECD : Organization for Economic Co-operation and Development  
OEL : Occupational Exposure Limit  
P-Statement : Precautionary Statement  
PBT : Persistent , Bioaccumulative and Toxic  
PPE : Personal Protective Equipment  
STEL : Short-term exposure limit  
STOT : Specific Target Organ Toxicity  
TLV : Threshold Limit Value  
TWA : Time-weighted average  
vPvB : Very Persistent and Very Bioaccumulative  
WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
DOT : Department of Transportation  
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
HMIRC : Hazardous Materials Information Review Commission  
HMIS : Hazardous Materials Identification System  
NFPA : National Fire Protection Association  
NIOSH : National Institute for Occupational Safety and Health  
OSHA : Occupational Safety and Health Administration  
PMRA : Health Canada Pest Management Regulatory Agency  
RTK : Right to Know  
WHMIS : Workplace Hazardous Materials Information System



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### **SECTION 16. OTHER INFORMATION (CONTINUED)**

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