



## GAP PROFESSIONAL PRODUCTS

### Safety Data Sheet Quick Cover (All colours)

#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name	Quick Cover (All colours)
Product number	QC1999 to QC2999

##### 1.2 Other means of identification

May be branded as FLR Quick Cover for Rock Chip/Paint Repair  
Part Number #'s may range from QC1999 to QC2999

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

Automotive touch-up paint

##### 1.4 Supplier's details

Name	GAP Professional Products
Address	122 Route 105 Keswick Ridge NB E6L 1B1 Canada
Telephone	(506) 363-9708
Fax	(506) 363-4241
email	info@gapauto.com

##### 1.5 Emergency phone number

For Medical or Transport Emergencies / Pour les urgences médicales ou de transport  
CANUTEC (24 Hours)  
(613) 996-6666

#### SECTION 2: Hazard identification

##### 2.1 Classification of the substance or mixture

###### GHS classification in accordance with: WHMIS 2015

- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4
- Carcinogenicity, Cat. 1A
- Skin corrosion/irritation, Cat. 2

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- Skin sensitizer, Cat. 1
- Specific target organ toxicity following repeated exposure, Cat. 2
- Toxic to reproduction, Cat. 2
- Acute toxicity, dermal, Cat. 5

### 2.2 GHS label elements, including precautionary statements

#### Pictograms



1. Exclamation mark; 2. Health hazard

#### Signal word

**Danger**

#### Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H350	May cause cancer [route]
H361	Suspected of damaging fertility or the unborn child [effect, route]
H373	May cause damage to organs [organs] through prolonged or repeated exposure [route]

#### Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell,
P302+P352	IF ON SKIN: Wash with plenty of water/...
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to ...

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Component	Concentration
<b>XYLENES (MIXED) (CAS no.: 1330-20-7; EC no.: 215-535-7; Index no.: 601-022-00-9)</b> CLASSIFICATIONS: Flammable liquids, Cat. 3; Acute toxicity, inhalation, Cat. 4; Acute toxicity, dermal, Cat. 4; Skin corrosion/irritation, Cat. 2. HAZARDS: H226 - Flammable liquid and vapor; H312 - Harmful in contact with skin; H315 - Causes skin irritation; H332 - Harmful if inhaled.	<b>20 - &lt; 30 % (weight)</b>
<b>2-Heptanone (CAS no.: 110-43-0; EC no.: 203-767-1; Index no.: 606-024-00-3)</b> CLASSIFICATIONS: Flammable liquids, Cat. 3; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4. HAZARDS: H226 - Flammable liquid and vapor; H302 - Harmful if swallowed; H332 - Harmful if inhaled.	<b>15 - &lt; 25 % (weight)</b>
<b>ETHYLBENZENE (CAS no.: 100-41-4; EC no.: 202-849-4; Index no.: 601-023-00-4)</b> CLASSIFICATIONS: Flammable liquids, Cat. 2; Acute toxicity, inhalation, Cat. 4; Aspiration hazard, Cat. 1; Specific target organ toxicity, repeated exposure, Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H332 - Harmful if inhaled; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route].	<b>1 - 6 % (weight)</b>
<b>METHYL ETHYL KETOXIME (CAS no.: 96-29-7; EC no.: 202-496-6; Index no.: 616-014-00-0)</b> CLASSIFICATIONS: Carcinogenicity, Cat. 2; Acute toxicity, dermal, Cat. 4; Eye damage/irritation, Cat. 1; Sensitization - skin, Cat. 1. HAZARDS: H312 - Harmful in contact with skin; H317 - May cause an allergic skin reaction; H318 - Causes serious eye damage; H351 - Suspected of causing cancer [route].	<b>&lt; 1 % (weight)</b>
<b>Toluene (CAS no.: 108-88-3; EC no.: 203-625-9; Index no.: 601-021-00-3)</b> CLASSIFICATIONS: Flammable liquids, Cat. 2; Reproductive toxicity, Cat. 2; Aspiration hazard, Cat. 1; Specific target organ toxicity, single exposure, Cat. 3; Specific target organ toxicity, repeated exposure, Cat. 2; Skin corrosion/irritation, Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H336 - May cause drowsiness or dizziness; H361d - ; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route].	<b>&lt; 1 % (weight)</b>
<b>Carbon black (airborne, unbound particles of respirable size) (CAS no.: 1333-86-4)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>&lt; 1 % (weight)</b>

### SECTION 4: First-aid measures

#### 4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Do not use solvents or thinners. Consult a physician. Get medical attention if symptoms occur.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed	DO NOT INDUCE VOMITING. Call physician immediately. If conscious give lots of water or milk. Do not give anything by mouth to an unconscious or convulsing person.
Personal protective equipment for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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### 4.2 Most important symptoms/effects, acute and delayed

Eye Contact: Causes serious eye irritation.  
Inhalation: Harmful if inhaled. May cause respiratory irritation.  
Skin Contact: Causes skin irritation. Defatting to the skin.  
Ingestion: No known significant effects or critical hazards.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Adverse symptoms may include the following:

Eye Contact: pain or irritation, watering, redness

Inhalation: respiratory tract irritation, coughing, reduced fetal weight, increase in fetal deaths, skeletal malformations

Skin Contact: irritation, dryness, cracking, reduced fetal weight, increase in fetal deaths, skeletal malformations

Ingestion: reduced fetal weight, increase in fetal deaths, skeletal malformations

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Regular foam, waterfog, carbon dioxide or dry chemical. Keep containers cool with water spray using fog nozzles.

### 5.2 Specific hazards arising from the chemical

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights and other flames in locations distant from the material handling point.

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Toluene: Carbon oxides

### 5.3 Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

#### Further information

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

See Section 8 for recommended personal protective equipment.

### 6.2 Environmental precautions

Should not be released into the environment.

### 6.3 Methods and materials for containment and cleaning up

Solvents

LARGE SPILLS: Dike far ahead of spill to prevent further movement. Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Dispose of according to local, and Provincial regulations for products containing petroleum distillates.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Put on appropriate personal equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling.

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

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials(see Section 10) and food and drink. Do not store under freezing conditions or above 49 C (120 F). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Keep out of reach from children.

#### Specific end use(s)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### 1. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 435 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 100 ppm, (ST) 150 ppm, (C) 300 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 100 ppm, (ST) 150 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 2. Methyl n-amyl ketone (CAS: 110-43-0)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 465 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 50 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 100 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 3. Ethyl benzene (CAS: 100-41-4)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 435 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 100 ppm, (ST) 125 ppm (Cal/OSHA)

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OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 100 ppm, (ST) 125 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### **4. Toluene (CAS: 108-88-3)**

PEL-TWA (Inhalation): 200 ppm (OSHA)

Central nervous system depression, causing fatigue, headache, confusion, paresthesia, dizziness, and muscular incoordination. Irritation of the eyes, mucous membranes, and upper respiratory tract

STEL (Inhalation): 150 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 100 ppm (375 mg/m<sup>3</sup>) (NIOSH)

Fatigue, weakness, confusion, headache, dizziness, drowsiness. Unconsciousness. Irritation of the eyes, respiratory tract, and skin

PEL-C (Inhalation): 300 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL-Peak (Inhalation): 500 ppm (10 minutes) (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

TWA (Inhalation): 10 ppm (37 mg/m<sup>3</sup>) (Cal/OSHA)

Female reproductive toxicity, spontaneous abortion. Impaired color vision, impaired hearing, decreased performance in neurobehavioral analysis, changes in motor and sensory nerve conduction velocity, headache, and dizziness

TLV® (Inhalation): 20 ppm (75 mg/m<sup>3</sup>) (ACGIH)

Female reproductive system damage and pregnancy loss. Central nervous system impairment and visual impairment

STEL (Inhalation): 150 ppm (560 mg/m<sup>3</sup>) (NIOSH)

Fatigue, weakness, confusion, headache, dizziness, drowsiness. Unconsciousness. Irritation of the eyes, respiratory tract, and skin

PEL-C (Inhalation): 500 ppm Ceiling (Cal/OSHA)

Female reproductive toxicity, spontaneous abortion. Impaired color vision, impaired hearing, decreased performance in neurobehavioral analysis, changes in motor and sensory nerve conduction velocity, headache, and dizziness

PEL-ST (Inhalation): 150 ppm (560 mg/m<sup>3</sup>) - SKIN (Cal/OSHA)

Female reproductive toxicity, spontaneous abortion. Impaired color vision, impaired hearing, decreased performance in neurobehavioral analysis, changes in motor and sensory nerve conduction velocity, headache, and dizziness

#### **5. Carbon black (CAS: 1333-86-4)**

PEL (Inhalation): 3.5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 3.5 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 3.5 mg/m<sup>3</sup> (without PAHs); when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen., See Appendix A, see Appendix C (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### **8.2 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **8.3 Individual protection measures, such as personal protective equipment (PPE)**

#### **Eye/face protection**

Splash goggles

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### Skin protection

Chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands after use.

### Body protection

Skin Protection: Protective gloves (for hands). Long sleeve shirts and pants should be worn to protect exposed skin.

### Respiratory protection

Dust mask or Respirator should be worn if product is used in confined space or used for a prolonged period of time.

## SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Product will appear in a variety of colours
Odor	Aromatic odour
Odor threshold	Not determined
pH	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	>37.78°C (>100°F)
Flash point	79° F T.C.C.
Evaporation rate	0.56 (butyl acetate = 1)
Flammability (solid, gas)	product mist may be flammable
Upper/lower flammability or explosive limits	LEL=0.9% UEL=6%
Vapor pressure	0.73 kPa (5.5 mm Hg)
Vapor density	Not Determined
Relative density	0.93
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	Not Determined
Auto-ignition temperature	Not Determined
Decomposition temperature	Not Determined
Viscosity	Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
<b>Additional properties</b>	
Physical state	Liquid

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None under normal use conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Will not occur.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Avoid contact with acids and strong oxidizers such as permanganate,

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chlorine, ectoderm. Do not store near acids, carbon dioxide (CO<sub>2</sub>), and strong oxidizers such as permanganate, chlorine, ectoderm.

### 10.6 Hazardous decomposition products

After water evaporates, burning may produce oxides of carbon, traces of sulfur and nitrogen oxides and various hydrocarbons

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

ATE (dermal) of mixture: 3666.67 mg/kg

ATE (inhalation, gaseous) of mixture: 7377.05 ppmv

ATE (oral) of mixture: 2000 mg/kg

Toluene    LD50 Oral - Rat - > 5,580 mg/kg

Toluene    LD50 Skin - Rabbit - 12,196 mg/kg

Toluene    Skin - Rabbit - 24 h

#### Skin corrosion/irritation

Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

#### Serious eye damage/irritation

Can cause severe irritation, redness, tearing, blurred vision.

#### Respiratory or skin sensitization

Excessive inhalation of vapors can cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

Carcinogenicity: Ingredients not listed by OSHA, NTP, IARC.

#### Reproductive toxicity

No data available

#### Summary of evaluation of the CMR properties

Not Available

#### Specific target organ toxicity (STOT) - single exposure

Primary route of entry: A) Skin    B) Inhalation

Xylene            Category 3

Toluene           Category 3

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### Specific target organ toxicity (STOT) - repeated exposure

Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to product.

Xylene	Category 2
Ethylbenzene	Category 2
Toluene	Category 2

### Additional information

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#### XYLENES (MIXED): \*TOXICITY:

typ. dose mode specie amount unit other

TCLo ihl hmn 200 ppm

LCLo ihl man 10000 ppm/6H

LD50 orl rat 4300 mg/kg

LC50 ihl rat 5000 ppm/4H

LD50 scu rat 1700 mg/kg

LD50 ipr mus 1548 mg/kg

LDLo ipr gpg 2000 mg/kg

LDLo ipr mam 2000 mg/kg

LCLo ihl gpg 450 ppm

LDLo orl hmn 50 mg/kg

\*AQTX/TLM96: 100-10 ppm

#### \*SAX TOXICITY EVALUATION:

THR = MODERATE via inhalation and oral routes.

#### \*CARCINOGENICITY:

Review: IARC Cancer Review: Human Inadequate Evidence

IARC Cancer Review: Animal Inadequate Evidence

IARC: Not classifiable as a human carcinogen (Group 3) [610]

Status: NTP Carcinogenesis Studies (Gavage); No Evidence: Male and Female Rat,

Male and Female Mouse [620]

#### \*MUTATION DATA:

test lowest dose | test lowest dose

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cyt-smc 1 mmol/tube |

#### \*TERATOGENICITY:

Reproductive Effects Data:

TCLo: ihl-rat 1000 mg/m<sup>3</sup>/24H (9-14D preg)

TCLo: ihl-rat 50 mg/m<sup>3</sup>/6H (1-21D preg)

TCLo: ihl-rat 600 mg/m<sup>3</sup>/24H (7-15D preg)

TDLo: orl-mus 20600 ug/kg (6-15D preg)

TCLo: ihl-mus 4000 ppm/6H (6-12D preg)

TDLo: orl-mus 31 mg/kg (6-15D preg)

TCLo: ihl-mus 2000 ppm/6H (6-12D preg)

#### \*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 100 ppm [610]

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Final Limit: PEL-TWA 100 ppm; STEL 150 ppm [610]  
ACGIH: TLV-TWA 100 ppm; STEL 150 ppm [610]  
NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:  
TWA 100 ppm; Ceiling Limit 200 ppm/10M [015,610]  
NFPA Hazard Rating: Health (H): 2  
Flammability (F): 3  
Reactivity (R): 0  
H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).  
F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).  
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

### \*OTHER TOXICITY DATA:

#### Skin and Eye Irritation Data:

eye-hmn 200 ppm  
skn-rbt 100% MOD  
skn-rbt 500 mg/24H MOD  
eye-rbt 87 mg MLD  
eye-rbt 5 mg/24H SEV

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid

DOT-IMO: Flammable or Combustible liquid; Label: Flammable liquid

Status: NIOSH Analytical Methods: see hydrocarbons, aromatic, 1501

EPA TSCA Chemical Inventory, 1986

EPA TSCA 8(a) Preliminary Assessment Information, Final Rule

EPA Genetox Program 1986, Negative: In vitro SCE-human lymphocytes;

In vitro SCE-human

EPA TSCA Test Submission (TSCATS) Data Base, December 1986

Meets criteria for proposed OSHA Medical Records Rule

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2-Heptanone: mouse LD50 intraperitoneal 400mg/kg (400mg/kg) "Patty's Industrial Hygiene and Toxicology," 3rd rev. ed., Clayton, G.D., and F.E. Clayton, eds., New York, John Wiley & Sons, Inc., 1978-82. Vol. 3 originally pub. in 1979; pub. as 2n rev. ed. in 1985. Vol. 2C, Pg. 4757, 1982.

mouse LD50 oral 730mg/kg (730mg/kg) Acta Pharmaceutica Jugoslavica. Vol. 12, Pg. 79, 1962.

rabbit LD50 skin 12600uL/kg (12.6mL/kg) American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.

Link to PubMed

rat LCLo inhalation 4000ppm/4H (4000ppm) American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.

Link to PubMed

rat LD50 intraperitoneal 800mg/kg (800mg/kg) "Patty's Industrial Hygiene and Toxicology," 3rd rev. ed., Clayton, G.D., and F.E. Clayton, eds., New York, John Wiley & Sons, Inc., 1978-82. Vol. 3 originally pub. in 1979; pub. as 2n rev. ed. in 1985. Vol. 2C, Pg. 4757, 1982.

rat LD50 oral 1670mg/kg (1670mg/kg) Union Carbide Data Sheet. Vol.

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### ETHYLBENZENE: \*TOXICITY:

typ. dose mode specie amount unit other

TCLo ihl hmn 100 ppm/8H

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LD50 orl rat 3500 mg/kg  
LCLo ihl rat 4000 ppm/4H  
LD50 skn rbt 17800 mg/kg  
LCLo ihl gpg 10000 ppm

\*AQTX/TLM96: 100-10 ppm.

**\*SAX TOXICITY EVALUATION:**

THR: MODERATE via irritation to the skin, eyes and mucous membranes, and via oral and inhalation routes. A concentration of 0.19% vapor in air will irritate eyes; 0.2% is extremely irritating. An experimental teratogen.

**\*CARCINOGENICITY:**

Status: NTP Carcinogenesis Studies; selected but deferred, April 1984

**\*MUTATION DATA:**

test lowest dose

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sce-hmn:lym 1 mmol/L

**\*TERATOGENICITY:**

Reproductive Effects Data:

TCLo: ihl-rat 97 ppm/7H (15D preg)  
TCLo: ihl-rat 985 ppm/7H (1-19D preg)  
TCLo: ihl-rat 96 ppm/7H (1-19D preg)  
TCLo: ihl-rbt 99 ppm/7H (1-18D preg)

**\*STANDARDS, REGULATIONS & RECOMMENDATIONS:**

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 100 ppm [610]

Final Limit: PEL-TWA 100 ppm, STEL 125 ppm [610]

ACGIH: TLV-TWA 100 ppm, STEL 125 ppm [610]

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 2

Flammability (F): 3

Reactivity (R): 0

H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).

F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

**\*OTHER TOXICITY DATA:**

Skin and Eye Irritation Data:

skn-rbt 15 mg/24H open MLD

eye-rbt 100 mg

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid

Status: "NIOSH Manual of Analytical Methods, 3rd. Ed."

Reported in EPA TSCA Inventory, 1983

EPA TSCA 8(a) Preliminary Assessment Information Final Rule

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EPA Genetic Toxicology Program, January 1984  
EPA TSCA Section 8(e) Status Report 8EHQ-0680-0345  
EPA TSCA Section 8(e) Status Report 8EHQ-1080-0368  
Meets criteria for proposed OSHA Medical Records Rule

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METHYL ETHYL KETOXIME: \*TOXICITY:  
typ. dose mode specie amount units other  
LD50 ipr mus 200 mg/kg  
LD50 scu rat 2702 mg/kg

\*AQTX/TLM96: Not available

\*SAX TOXICITY EVALUATION:

THR: Poison by intraperitoneal route. Moderately toxic by subcutaneous route.

\*CARCINOGENICITY: Not available

\*MUTATION DATA:

test lowest dose | test lowest dose

----- | -----

Not available |

\*TERATOGENICITY: Not available

\*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: None

ACGIH: None

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): None

Flammability (F): 2

Reactivity (R): 0

F2: Materials which must be moderately heated before ignition will occur  
(see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions  
and which are not reactive with water (see NFPA for details).

\*OTHER TOXICITY DATA:

Status: EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, March 1988

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Toluene: \*TOXICITY:  
typ. dose mode specie amount units other  
TCLo ihl hmn 200 ppm  
TCLo ihl man 100 ppm  
LD50 orl rat 5000 mg/kg  
LCLo ihl rat 4000 ppm/4H  
LD50 ipr rat 1332 mg/kg  
LD50 unr rat 6900 mg/kg  
LC50 ihl mus 5320 ppm/8H

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LD50 ipr mus 640 mg/kg  
LD50 unr mus 2000 mg/kg  
LD50 skn rbt 12124 mg/kg  
LCLo ihl gpg 1600 ppm  
LDLo scu frg 920 mg/kg  
LDLo orl hmn 50 mg/kg  
LD50 ivn rat 1960 mg/kg  
LD50 scu mus 2250 mg/kg  
LDLo ivn rbt 130 mg/kg  
LCLo ihl rbt 55000 ppm/40M  
LDLo ipr gpg 4681 mg/kg  
LDLo ipr mam 1750 mg/kg

\*AQTX/TLM96: Not available

### \*SAX TOXICITY EVALUATION:

THR: Poison by intraperitoneal route. Moderately toxic by intravenous, subcutaneous and possibly other routes. Mildly toxic by inhalation. An experimental teratogen. Human systemic effects by inhalation. Experimental reproductive effects. Mutagenic data. A human eye irritant. An experimental skin and severe eye irritant. In the few cases of acute poisoning reported, the effect has been that of a narcotic, the workman passing through a stage of intoxication into one of coma. Recovery following removal from exposure has been the rule. A common air contaminant.

### \*CARCINOGENICITY:

Review: IARC Cancer Review: Human Inadequate Evidence  
IARC Cancer Review: Animal Inadequate Evidence  
IARC: Not classifiable as a human carcinogen (Group 3) [610]  
Status: NTP Carcinogenesis Studies (Inhalation); No Evidence: Male and Female Rat, Male and Female Mouse [620]

\*MUTATION DATA: See RTECS printout for data

\*TERATOGENICITY: See RTECS printout for data

### \*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z  
Transitional Limit: PEL-TWA 200 ppm; Ceiling Limit 300 ppm;  
Peak 500 ppm/10M [015,327,545,610]  
Final Limit: PEL-TWA 100 ppm; STEL 150 ppm [015,545,610]  
ACGIH: TLV-TWA 100 ppm; STEL 150 ppm [015,415,421,610]  
NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:  
TWA 100 ppm; Ceiling Limit 200 ppm/10M [015,610]  
NFPA Hazard Rating: Health (H): 2  
Flammability (F): 3  
Reactivity (R): 0  
H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).  
F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).

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R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

**\*OTHER TOXICITY DATA:**

Skin and Eye Irritation Data:

eye-hmn 300 ppm

skn-rbt 435 mg MLD

skn-rbt 20 mg/24H MOD

skn-rbt 500 mg MOD

eye-rbt 870 ug MLD

eye-rbt 2 mg/24H SEV

eye-rbt 100 mg/30S rns MLD

Review: Toxicology Review-7

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid

Status: EPA Genetox Program 1988, Negative: Cell transform.-SA7/SHE; In vitro SCE-human

EPA Genetox Program 1988, Negative: Sperm morphology-mouse

EPA Genetox Program 1988, Inconclusive: E coli polA without S9

EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, January 1990

NIOSH Analytical Methods: see Hydrocarbons, Aromatic, 1501;

Hydrocarbons, BP 36-126 C, 1500

NIOSH Analytical Methods: see Toluene, 4000; 2-Butanone, Ethanol, and Toluene in blood, 8002

EPA TSCA 8(a) Preliminary Assessment Information, Final Rule

EPA TSCA Section 8(e) Status Report 8EHQ-0680-0345

EPA TSCA Section 8(e) Status Report 8EHQ-1080-0368

EPA TSCA Section 8(e) Status Report 8EHQ-0278-0079 P

IDLH value: 2000 ppm [071,371]

### SECTION 12: Ecological information

**Toxicity**

Toluene EC50 - Pseudokirchneriella subcapitata (green algae) - 10 mg/l - 24 h

Toluene LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h

Toluene EC50 - Daphnia magna (water flea) - 6 mg/l - 48 h

Toluene EC50 - Chlorella vulgaris (fresh water algae) - 245 mg/l - 24 h

Toluene NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d

ethylbenzene Acute LC50 150 to 200 mg/l Fresh water Fish - Lepomis macrochirus - Young of the year 96 hrs

### SECTION 13: Disposal considerations

**Disposal methods**

**Product disposal**

Dispose of accordance in local, and provincial regulations for solvent materials.

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**SECTION 14: Transport information**

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to IMO instruments	None

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations specific for the product in question**

Canadian Domestic Substances List (DSL)

**SECTION 16: Other information**

**16.1 Further information/disclaimer**

These SDS are written in an effort to provide information to the worker in the workplace and in such a way it can be understood. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**16.2 Preparation information**

Prepared by: C. Gourley