



Comet Chemical Company Ltd.  
3463 Thomas Street Innisfil ,ON L9S 3W4  
Tel: (705) 436-5580 Fax: (705) 436-7194

## Material Safety Data Sheet

### (ALPHA) METHYL STYRENE

Revision Date: 2008/05/02

#### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Mixture.

**Product uses:** Monomer for polymer plastics manufacture.

**Product name:** (Alpha) Methyl Styrene

**Supplier:** Comet Chemical Ltd.  
3463 Thomas Street  
Innisfil, On.  
L9S 3W4.

**Supplier 24 hour phone number:** (705)436-5580 – weekdays from 8:00-5:00.  
(800)567-7455 all other times (Newalta Services).

#### Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingredient	V.L.E.	DL/50	CL/50
98-83-9	100	ALPHA-METHYLSTYRENE	50 PPM	4900 MG/KG RAT ORAL 4500 MG/KG MOUSE ORAL	NOT AVAILABLE

#### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
CAS# 98-83-9: LD50 4500 mg/kg rat oral.  
CAS# 98-83-9: LD50 > 15,000 mg/kg rabbit dermal.  
CAS# 98-83-9: LC50 > 3000 ppm rat inhalation.

#### Section 3 : HAZARD IDENTIFICATION

**Route of entry:** Eye contact, skin contact, skin absorption, inhalation and ingestion.

##### Effects of acute exposure

**Eye contact:** May cause tearing.  
Irritant.

**Skin contact:** May cause irritation.

**Skin absorption:** No adverse effects are expected with normal use.  
May be absorbed through the skin.

**Inhalation:** Irritant.  
Intoxication.  
May cause drowsiness.  
Headaches, dizziness.

- Ingestion:** No data on symptoms available.
- Effects of chronic exposure:** May cause dermatitis.  
May cause liver and kidney damage.  
May cause metabolic problems.  
May cause spasticity.
- Sensitization to product:** No
- Carcinogenic effects:** Not listed as a carcinogen.
- Reproductive effects:** None known.
- Teratogenicity:** Not available.
- Mutagenicity:** May cause mutagenic effects.
- Synergistic materials:** Not available.

#### Section 4 : FIRST AID MEASURES

- Skin contact:** Wash thoroughly with soap and water.  
Remove contaminated clothing.  
Consult a physician if irritation persists.
- Eye contact:** Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.
- Inhalation:** Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.
- Ingestion:** Obtain immediate medical attention.  
Do not induce vomiting, keep person warm, quiet.  
Guard against aspiration of liquids into lungs.  
If vomiting occurs, keep head below hips.  
Never give anything by mouth to an unconscious person.  
Drink milk.

#### Section 5 : FIRE FIGHTING MEASURES

- Flammability:** Combustible.
- Conditions of flammability:** Heat, sparks and open flames.
- Extinguishing media:** Dry chemical.  
Alcohol foam.  
Water spray.  
Do not use water jet.
- Special procedures:** Firefighters should wear adequate protective gear.  
Self-contained breathing apparatus required.  
Use water spray to cool fire exposed containers.  
This products floats on water which creates a fire hazard.
- Auto-ignition temperature (°C):** 574°C
- Flash point (°C), method:** 48°C
- Lower flammability limit (% vol):** Not available.
- Upper flammability limit (% vol):** Not available.

### Explosion Data

**Sensitivity to static discharge:** Not sensitive.

**Sensitivity to mechanical impact:** Protect against physical damage.

**Hazardous combustion products:** Carbon monoxide (CO).  
Smoke  
Peroxides.  
Nitrogen oxides (NO<sub>x</sub>).

**Rate of burning:** Not available.

**Explosive power:** Not available.

### **Section 6 : ACCIDENTAL RELEASE MEASURES**

**Leak/Spill:** Eliminate all sources of ignition.  
Dike area to prevent spreading.  
Ventilate area.  
Wear appropriate protective equipment.  
Ground handling equipment.  
Use non-sparking tools.  
Explosion proof motors are recommended.  
Soak up with inert absorbent.  
Pump to containers or soak up on inert absorbent.  
Place in a closed container for disposal.  
Blanket spill with foam to protect against accidental ignition.

### **Section 7 : HANDLING AND STORAGE**

**Handling procedures and equipment:** Keep away from heat, sparks, and open flame.  
Avoid breathing vapors/mists.  
Use adequate ventilation.  
Wear personal protective equipment appropriate to task.  
Use proper grounding procedures.  
Avoid contact with skin, eyes and clothing.  
Do not cut, grind, weld or drill on or near containers.  
Launder contaminated clothing prior to reuse.  
Do not ingest.

**Storage requirements:** Store away from all sources of ignition.  
Store away from incompatible materials.  
Store in a cool, dry and well ventilated area.

### **Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### Precautionary Measures

**Gloves/Type:**



PVC gloves.  
Natural rubber.  
Viton gloves.

**Respiratory/Type:** None required under normal use.  
If TLV is exceeded.



NIOSH approved organic vapors.

**Eye/Type:**



Safety glasses with side-shields.



Chemical safety goggles.

**Footwear/Type:**



Impervious boots.

**Clothing/Type:** Long sleeve shirt, long trousers.  
When splashing is possible.



Apron  
Impervious clothing.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** As needed to stay below TLV.

**Exposure limit of material:** Not available for mixture, see the ingredients section.

## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Appearance & odor:** Colourless.  
Characteristic odour.  
Clear  
Unpleasant odour.

**Odor threshold (ppm):** 0.06 ppm

**Vapour pressure (mmHg):** 1.9 @ 20°C

**Vapour density (air=1):** 4.1

### Volatiles (%)

**By volume:** Not available.

**Evaporation rate  
(butyl acetate = 1):** Not available.

**Boiling point (°C):** 165°C

**Freezing point (°C):** -23°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 0.91

**Solubility in water (%):** 0.06% (25°C)

**Coefficient of water/oil dist.:** Not available.

**VOC:** Not available.

#### Section 10 : STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions.

**Conditions of instability:** Prolonged exposure to air.

**Hazardous polymerization:** May occur at elevated temperatures.

**Incompatible substances:** Acids  
Copper (Cu).  
Copper alloys.  
Halogenated compounds.  
Strong oxidizing agents.  
Free radicals.

**Hazardous decomposition products:** See hazardous combustion products.

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** 4500 mg/kg mouse oral.  
> 15,000 mg/kg rabbit dermal.

**LC50 of product, species & route:** > 3000 ppm rat inhalation.

#### Section 12 : ECOLOGICAL INFORMATION

**Environmental toxicity:** No data at this time.

**Environmental fate:** No data at this time.

#### Section 13 : DISPOSAL CONSIDERATIONS

**Waste disposal:** In accordance with municipal, provincial and federal regulations.  
May be incinerated.

#### Section 14 : TRANSPORT INFORMATION

**TDG classification:** ISOPROPENYLBENZENE  
UN2303  
Class 3  
PG III.



**Special shipping information:** See transportation information.

**Section 15 : REGULATORY INFORMATION**

**WHMIS classification:**

B3, D2B.



**DSL status:** Appears on DSL.

**Section 16 : OTHER INFORMATION**

**Supplier MSDS date:** 2008/05/02

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