

Name, address, and telephone number of

Comsol 150

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# SAFETY DATA SHEET

# SECTION 1. IDENTIFICATION

Product identifier used on the label

: Comsol 150

Product Code(s) : Not available.

Recommended use of the chemical and restrictions on use

Petroleum solvent

Use pattern: Professional Use Only Restriction on use: None known

Chemical family : Hydrocarbons.

Name, address, and telephone number

of the supplier: the manufacturer:

Comet Chemical Company Ltd. Refer to supplier

3463 Thomas Street

Innisfill, ON, Canada L9S 3W4

Supplier's Telephone # : 705-436-5580

24 Hr. Emergency Tel # : TERRRAPURE ENVIRONMENTAL : 800-567-7455

# SECTION 2. HAZARDS IDENTIFICATION

### Classification of the chemical

Clear colourless liquid. Petroleum odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable Liquid - Category 4
Aspiration Toxicity - Category 1
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
Specific target organ toxicity, single exposure - Category 3 respiratory tract irritation

# Label elements

Hazard pictogram(s)





Signal Word

DANGER!

Hazard statement(s)

Combustible liquid.

May be fatal if swallowed and enters airways.

May cause respiratory irritation.

May cause drowsiness or dizziness.



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#### Precautionary statement(s)

Keep away from flames and hot surfaces. - No smoking.

Avoid breathing mist or vapours.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction.

Store in a well-ventilated place. Keep cool.

Store locked up.

Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

Other hazards which do not result in classification:

May cause skin and respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Direct eye contact may cause slight or mild, transient irritation.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Pure substance

Chemical name	Common name and synonyms	CAS#	<u>Concentration</u>
Petroleum naphtha	Heavy Aromatic Naphtha	64742-94-5	100.00

# SECTION 4. FIRST-AID MEASURES

### Description of first aid measures

Ingestion

: Call a physician or poison control centre immediately. Induce vomiting ONLY under the direct supervision of qualified medical personnel or a poison control centre. Never give anything by mouth to an unconscious person.

Inhalation

: Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.

Skin contact

: Immediately flush with plenty of water, while removing contaminated clothing. If irritation persists, seek prompt medical attention. Launder clothing before reuse.

Eye contact

: Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

# Most important symptoms and effects, both acute and delayed

: Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath. Direct eye contact may cause slight or mild, transient irritation. May cause drowsiness or dizziness. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Direct skin contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON, Canada, L9S 3W4

Telephone: (705) 436 5580

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#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Aspiration hazard. This product is a CNS depressant.

# SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

Burning produces obnoxious and toxic fumes. Combustible liquid and vapour. Vapors are heavier then air and will settle and collect in low areas and pits, displacing breathing air.

### Flammability classification (OSHA 29 CFR 1910.106)

Flammable Liquid - Category 4

### Hazardous combustion products

: Carbon oxides, formaldehyde and other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information

on acceptable personal protective equipment.

# **Environmental precautions**

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

#### Methods and material for containment and cleaning up

Ventilate the area. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

#### Special spill response procedures

In case of transportation accident, contact TERRAPURE ENVIRONMENTAL at 1-800-567-7455.

US CERCLA Reportable quantity (RQ): None.

#### SECTION 7. HANDLING AND STORAGE



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: Wear protective gloves and eye/face protection. Keep away from heat and open flames. - No smoking. Use with adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from acids and other incompatibles. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be

dangerous.

Conditions for safe storage

Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or

leaks

Incompatible materials : Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:							
Chemical Name	ACGI	H TLV	OSHA PEL				
	<u>TWA</u>	STEL	<u>PEL</u>	<u>STEL</u>			
Petroleum naphtha	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av			

# **Exposure controls**

Ventilation and engineering measures

: Use sufficient mechanical ventilation to maintain exposures below the TLV. Use local

exhaust if mist or spray is generated.

Respiratory protection : Respiratory protection is required if the concentrations exceed the TLV.

NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR

1910.134) or CSA Z94.4-02.

**Skin protection**: Wear appropriate chemical resistant gloves. Advice should be sought from glove

suppliers.

Eye / face protection : Chemical goggles are recommended when there is a potential for splashing.

Other protective equipment : Emergency showers and eyewash facilities should be nearby. Wear a chemically

resistant apron and long sleeves when dispensing, to prevent skin contact.

General hygiene considerations

: Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and

wash it thoroughly before reuse.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear, colourless liquid.

Odour : Petroleum odour.

 Odour threshold
 : N/Av

 pH
 : N/Av

 Melting/Freezing point
 : -30°C(-22°F)

Initial boiling point and boiling range

: 182-202°C (359.6- 395.6°F)

Flash point :  $63^{\circ}$ C (145.4°F)



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Flashpoint (Method) : closed cup
Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

1.8%

Upper flammable limit (% by vol.)

: 11.7%

Oxidizing properties: None known.Explosive properties: Not explosiveVapour pressure: 0.4 kPaVapour density: 4.7

Relative density / Specific gravity

: 0.895

Solubility in water : Insoluble.

Other solubility(ies) : Soluble in most organic solvents.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

:

Auto-ignition temperature : 443°C (829.4°F)

Decomposition temperature : Not available.

Viscosity : Not available.

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Ap

Flame projection length : N/Ap

Other physical/chemical comments

None known or reported by the manufacturer.

# SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Avoid excessive heat, sparks and open flame. Do not use in areas without adequate

ventilation. Avoid contact with incompatible materials.

Incompatible materials : Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

# SECTION 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES

Routes of exposure skin absorption

: YES



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# **Potential Health Effects:**

#### Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath. May cause drowsiness or dizziness. May cause headache, nausea, drowsiness or other effects on the central nervous system.

Sign and symptoms ingestion

: May be harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Sign and symptoms skin : Direct skin contact may cause temporary redness.

Sign and symptoms eyes : Direct contact with eyes may cause temporary irritation.

**Potential Chronic Health Effects** 

Symptoms may include redness, edema, drying defatting and cracking of the skin.

**Mutagenicity** : Not expected to be mutagenic.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material Specific target organ effects Not expected to be a skin or respiratory sensitizer.

This material is classified as hazardous under U.S. OSHA regulations (29CFR

1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products

Regulations) (WHMIS 2015). Classification:

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) May cause respiratory irritation. May cause drowsiness or dizziness.

Not classified as a specific target organ toxicity - repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye or nervous system disorders.

Synergistic materials : Not available.

**Toxicological data** : See below for toxicological data on the substance.

	LCso(4hr)	LDs	0
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)
Petroleum naphtha	> 17.1 mg/L (mist)	> 6000 mg/kg	> 3160 mg/kg

#### Other important toxicological hazards

: CNS depression may result from extreme exposures.

#### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

: Toxic to aquatic life with long lasting effects. See the following tables for individual ingredient ecotoxicity data. Do not allow material to contaminate ground water system.

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#### Ecotoxicity data:

In ove dieute	040 N	Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Petroleum naphtha	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	None.		

<u>Ingredients</u>	CAS No	То	Toxicity to Daphnia			
			EC50 / 48h		NOEC / 21 day	M Factor
Petroleum naphtha	64742-94-5	1.1 mg/L (Daphnia magna)	N/Av	None.		

<u>Ingredients</u>	CAS No	Т	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Petroleum naphtha	64742-94-5	7.2 mg/L/72hr (Green algae)	0.22 mg/L/72hr	None.	

Persistence and degradability

: Readily biodegradable.

**Bioaccumulation potential**: No data is available on the product itself.

<u>Components</u>	Partition coefficent n-octanol/ater (log Kow)	Bioconcentration factor (BCF)
Petroleum naphtha (CAS 64742-94-5)	> 3, to < 6.5	61 - 159 species: fish

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle waste according to recommendations in Section 7.

**Methods of Disposal** 

: Dispose in accordance with all applicable federal, state, provincial and local

regulations.

**RCRA** 

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION							
Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label		
49CFR/DOT	None.	Not regulated.	not regulated	none	$\bigotimes$		



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49CFR/DOT Additional information	None.	,	ı	'	ı					
TDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphtha)	9	III	(1) (¥2)					
TDG Additional information		ped as a Limited Quantity when transported in containers no larger to be (66 pounds) gross mass.	than 5 L (1.3 gallo	ns); in pack	ages not					
ICAO/IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Naphtha)	9	III	<b>♣</b>					
ICAO/IATA Additional information	Refer to ICA	Refer to ICAO/IATA Packing Instruction								
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	9	III	<b>1</b>					
IMDG Additional information										

Special precautions for user

: Keep away from heat, sparks and open flame. - No smoking.

**Environmental hazards** 

: Toxic to aquatic life with long lasting effects. See ECOLOGICAL INFORMATION,

Section 12.

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

: Not available.

# SECTION 15 - REGULATORY INFORMATION

# **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
	CAS # Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration		
Petroleum naphtha	64742-94-5	Yes	None.	None.	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard ;Immediate (Acute) health hazard . Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

# **US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	California Proposition 65			State "Right to Know" Lists				
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Petroleum naphtha	64742-94-5	No	N/Ap	No	No	No	No	No	No



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#### **Canadian Information:**

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product. All ingredients are present on the DSL.

#### **International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Petroleum naphtha	64742-94-5	265-198-5	Present	Present	(9)-2578	KE-31656	Present	May be used as a single component chemical under an appropriate group standard

# SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CNS: Central Nervous System COC: Cleveland Open Cup

CSA: Canadian Standards Association DOT: Department of Transportation EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average



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WHMIS: Workplace Hazardous Materials Identification System

: OECD - The Global Portal to Information on Chemical Substances - eChemPortal,

2015.

Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015

(Chempendium, RTECs, HSDB, INCHEM). 2015

European Chemicals Agency, Classification Legislation, 2015

Material Safety Data Sheet from manufacturer.

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: 12/11/2015

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

# Prepared for:

Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON L9S 3W4

Information (M-F 8:00-5:00): 705-436-5580

www.cometchemical.com



# Prepared by:

ICC The Compliance Center Inc.

Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)

http://www.thecompliancecenter.com



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