

Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON, Canada, L9S 3W4 Telephone: (705) 436 5580

Comsol D-40

SDS Preparation Date (mm/dd/yyyy): 10/24/2016

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: Comsol D-40

Product Code(s) : None reported.

Recommended use of the chemical and restrictions on use

: Industrial solvent.

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

Chemical family : Petroleum distillates

Name, address, and telephone number

of the supplier:

Name, address, and telephone number of

the manufacturer:

Comet Chemical Company Ltd. Refer to supplier

3463 Thomas Street Innisfill, ON, Canada

L9S 3W4

Supplier's Telephone # : 506-432-9500 Mon-Fri 8am - 5pm

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

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear blue liquid. Petroleum hydrocarbon 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 Liquids - Category 3 Aspiration toxicity: Category 1

Label elements

Hazard pictogram(s)





Signal Word

DANGER!

Hazard statement(s)

Flammable liquid and vapor.

May be fatal if swallowed and enters airways.



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Precautionary statement(s)

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

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

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

Store locked up.

Store in a well-ventilated place. Keep cool.

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

Other hazards

Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach. May cause respiratory irritation. Contact with eyes may cause irritation.

Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Environmental precautions :

Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)	
Hydrotreated light distillate	Distillates (petroleum), hydrotreated light	64742-47-8	100.00	

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : If swallowed: Immediately call a poison center/doctor. Do not induce vomiting. mouth thoroughly. Never give anything by mouth to an unconscious person. If vomiting

occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Inhalation : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.

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

Skin contact : Wash affected areas with soap and water. Take off contaminated clothing and wash

before re-use. Get medical attention if irritation develops and persists.

: Flush with large amounts of water for 15 minutes. Remove contact lenses, if present Eye contact

and easy to do. If irritation or symptoms develop, seek medical attention.



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Most important symptoms and effects, both acute and delayed

: Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects. Direct eve contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May have laxative effects.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Aspiration hazard.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

: Flammable liquid and vapour. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapour can travel considerable distance and flashback to a source of ignition. Vapours are heavier than air and collect in confined and low-lying areas.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 3

Hazardous combustion products

: Carbon dioxide and carbon monoxide. Other unidentified organic compounds .

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

Special fire-fighting procedures

: Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. 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. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

Ventilate the area. Prevent further leakage or spillage if safe to do so. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Spilled material will create slippery surfaces. Clean up promptly. 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). Contact the proper local authorities.



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Special spill response procedures

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

US CERCLA Reportable quantity (RQ): None reportable.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Wear suitable protective equipment. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat and open flames. - No smoking. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting/equipment. Take precautionary measures against static discharges. Bond and ground transfer containers and equipment to avoid static accumulation. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use.

Conditions for safe storage :

Store locked up. Store in a cool, dry, well-ventilated area. Keep container tightly closed. 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	ACGIH TLV		OSHA PEL		
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>	
Hydrotreated light distillate	200 mg/m³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av	

Exposure controls

Ventilation and engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Use

explosion-proof electrical and ventilating equipment.

Respiratory protection : Respiratory protection is required if the concentration

 Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.

Skin protection: Wear protective gloves. The

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

with the producers of the protective gloves.

Eye / face protection : Wear eye/face protection. Chemical goggles must be worn to prevent dusts from

entering the eyes.

Other protective equipment : Wear appropriate protective clothing to prevent skin contact, such as coveralls or long

sleeved shirt, long pants, and shoes and socks. An eyewash station and safety shower should be made available in the immediate working area. Other equipment

may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. 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 blue liquid.





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Odour : Mild petroleum odour.
Odour threshold : No information available.
pH : No information available.

Melting/Freezing point : >-60°C Initial boiling point and boiling range

: 159-194°C

Flash point : 242°C

Flashpoint (Method) : Tag closed cup Evaporation rate (BuAe = 1) : Not available.

Flammability (solid, gas) : The product is not flammable.

Lower flammable limit (% by vol.)

1.4%

Upper flammable limit (% by vol.)

: 8.9%

Oxidizing properties : None known. Explosive properties : Not explosive

Vapour pressure : 2.2Vapour density : 5(Air = 1)

Relative density / Specific gravity

: 0.77

Solubility in water : Insoluble.

Other solubility(ies) : No information available.

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

: 3.3-6

Auto-ignition temperature : 232°C

Decomposition temperature : No information available.

Viscosity : 1.13 cST @ 25°C

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: No information available.

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

: Hazardous polymerization does not occur.

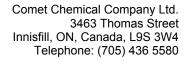
Conditions to avoid : Ensure adequate ventilation, especially in confined areas. Avoid contact with

incompatible materials.

Incompatible materials : See Section 7 (Handling and Storage) for further details.

Hazardous decomposition products

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





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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

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory tract irritation. Symptoms may include coughing, choking and

wheezing.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may

cause pulmonary oedema and pneumonitis.

Sign and symptoms skin : Causes skin irritation. Symptoms may include redness, edema, drying defatting and

cracking of the skin.

Sign and symptoms eyes : Direct eye contact may cause slight redness.

Potential Chronic Health Effects

Prolonged exposure can cause redness, swelling, itching, cracking of the skin,

dermatitis and sensitization.

Mutagenicity : Not expected to be mutagenic in humans.

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

Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

Sensitization to material : Not ex

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: This material is not classified as hazardous under U.S. OSHA regulations (29CFR

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

Regulations) (WHMIS 2015).

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials : No information available.

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

	LC50(4hr)	LDe	50	
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)	
Hydrotreated light distillate	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg	

Other important toxicological hazards

: See Section 2 for additional information.

SECTION 12. ECOLOGICAL INFORMATION



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Ecotoxicity

: Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for the substance's ecotoxicity data. Do not allow this material to drain into sewers/water supplies.

Ecotoxicity data:

Ingradianta	CACNI	Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Hydrotreated light distillate	64742-47-8	45 mg/L (Fathead minnow)	N/Av	None.		

<u>Ingredients</u>	CAS No	Toxicity to Daphnia				
		EC50 / 48h	EC50 / 48h NOEC / 21 day			
Hydrotreated light distillate	64742-47-8	N/Av	N/Av	N/Av		

<u>Ingredients</u>	CAS No	Toxicity to Algae					Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor					
Hydrotreated light distillate	64742-47-8	N/Av	N/Av	N/Av					

Persistence and degradability

: Not readily biodegradable.

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

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Hydrotreated light distillate (CAS 64742-47-8)	5.1-8.8	N/Av

Mobility in soil

This material has low solubility and floats, and is expected to migrate from water to the land.

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. Empty containers may contain hazardous residues.

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.



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SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III	3
TDG Additional information		d as a Limited Quantity when transported in containers no l g (66 pounds) gross mass.	arger than 5 L	(1.3 gallons); in packages not
49CFR/DOT	UN1268	Petroleum distillates, n.o.s; or Petroleum products, n.o.s.	3	III	3
49CFR/DOT Additional information	Limited Quanti CFR.	ty exemption may be used if product is in containers or 5 L	itres or less, pe	er Section 1	73.150 of 49
IMDG	UN1268	PETROLEUM DISTILLATES, N.O.S.; or PETROLEUM PRODUCTS, N.O.S.	3	III	3
IMDG Additional information	Consult the IMI	DG regulations for exceptions.			
ICAO/IATA	UN1268	Petroleum products, n.o.s.	3	III	3
ICAO/IATA Additional information	Refer to ICAO/I	ATA Packing Instruction			

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat,

sparks and open flame. - No smoking.

Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance

according to the IMDG Code. See Section 12 for more environmental information.

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

: This information is 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>		CAS # TSCA Inventory	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
	CAS#		Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Hydrotreated light distillate	64742-47-8	Yes	N/Ap	N/Av	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard, 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 or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.



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US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	California Proposition		State "Right to Know" Lists					
	J. 10 11	Listed	Type of Toxicity	CA MA MN NJ		NJ	PA	RI	
Hydrotreated light distillate	64742-47-8	No	N/Ap	No	No	No	No	No	No

Canadian Information:

All ingredients are present on the DSL. WHMIS Classification: See Section 2.

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
Hydrotreated light distillate	64742-47-8	265-149-8	Present	Present	(9)-1700	KE-12550	Present	No information available.

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CNS: Central Nervous System DOT: Department of Transportation EPA: Environmental Protection Agency

EINECS: European Inventory of Existing Commercial chemical Substances

IARC: International Agency for Research on Cancer

IBC: Intermediate Bulk Container

IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System



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References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices for 2016

2. International Agency for Research on Cancer Monographs, searched 2016

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases.

2016(Chempendium, HSDB and RTECs).

4. Material Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists - 2016 version.

6. California Proposition 65 List - 2016 version.

7. OECD - The Global Portal to Information on Chemical Substances -

eChemPortal,2016.

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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

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