

Comsol 1520

SDS Revision Date (mm/dd/yyyy): 01/14/2019

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: Comsol 1520

Product Code(s) : None assigned.

Recommended use of the chemical and restrictions on use

: Industrial solvent.

Use pattern: Professional use only Recommended restrictions None known.

Chemical family : Petroleum hydrocarbon

Name, address, and telephone number

of the supplier:
Comet Chemical Company Ltd.

Name, address, and telephone number of

the manufacturer:

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, colorless liquid. Mild 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 Liquids - Category 2 Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects Aspiration Toxicity - Category 1

Label elements

Hazard pictogram(s)





Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapour. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.



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Precautionary statement(s)

Keep away from heat, open flames and hot surfaces. - No smoking.

Keep container tightly closed.

Ground/Bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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 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.

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 container tightly closed.

Keep cool.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: May be sensitive to static discharge. Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause eye irritation. May cause skin irritation. May cause respiratory tract irritation.

Environmental Precautions: Toxic to aquatic life with long lasting effects. Do not allow this material to drain into sewers/water supplies.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Naphtha, petroleum, hydrotreated light	Aliphatic naphtha Aliphatic hydrocarbon	64742-49-0	100.00

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT

induce vomiting. 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 : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing

has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel

unwell.

Skin contact : Immediately flush with plenty of water, while removing contaminated

clothing.Immediately call a POISON CENTER or doctor/physician. Wash contaminated

clothing before reuse.

Eye contact : For eye contact, flush with running water for at least 15 minutes. If eye irritation

persists: get medical advice/attention.



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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 drowsiness or dizziness. Causes skin irritation. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Redness, swelling, itching and dryness. May cause respiratory irritation, Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause eye irritation. Symptoms may include stinging and tearing.

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

Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog

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

: Highly flammable liquid and vapour, Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material. Empty containers may contain hazardous residues.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 2

Hazardous combustion products

: Carbon dioxide, carbon monoxide and 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.

Special fire-fighting procedures

: Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not allow material to contaminate ground water system. 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. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. 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. Refer to Section 13 for disposal of contaminated material.



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Special spill response procedures

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

EPA/CERCLA Reportable quantity (RQ): None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges.

Ground all equipment during handling.

Conditions for safe storage: Keep container tightly closed. Store in cool/well-ventilated place. Store locked up.

Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No

smoking. Empty containers may contain hazardous residues.

Incompatible materials : Oxidizing agents Halogens. Molten sulfur.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGIH TLV		OSHA PEL		
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	STEL	
Naphtha, petroleum, hydrotreated light	N/Av	N/Av	N/Av	N/Av	

Exposure controls

Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory

equipment.

Respiratory protection

If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. 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. Advice should be sought from respiratory protection specialists.

Skin protection

Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection

Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles

Other protective equipment

Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear colourless liquid.

Odour : Mild petroleum odour.

Odour threshold : Not available.

pH : No information available.

Melting/Freezing point : -54°C (-65.2°F)

Initial boiling point and boiling range

64-94°C (140-201.2°F)

Flash point : -18°C (-0.4°F)
Flashpoint (Method) : Cleveland closed cup

Evaporation rate (BuAe = 1) : Not available.

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: 1.8%

Upper flammable limit (% by vol.)

: 11.6%

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : 148 mm Hg

Vapour density : 33 Relative density / Specific gravity

: 0.675 @ 20°C

Solubility in water : Insoluble.

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

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

: 3.6-5.7

Auto-ignition temperature : 257 °C (494.6°F)

Decomposition temperature: No information available.

Viscosity : 0.44 @ 25°C

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: No information available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

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 : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible

substances. Do not use in areas without adequate ventilation.

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:

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting 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 : May cause skin irritation. Symptoms may include mild redness and swelling. Sign and symptoms eyes : May cause eye irritation. Symptoms may include stinging and tearing.

Potential Chronic Health Effects

: Prolonged exposure can cause central nervous system effects.

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 cause reproductive effects.

Sensitization to material : Not

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: This materi

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200)

(Hazcom 2012). Classification:

Specific target organ toxicity, single exposure - Category 3.

May cause drowsiness or dizziness.

The substance or mixture is not classified as specific target organ toxicant, repeated

exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials : No information available.

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

	LC50(4hr)	LD ₅₀			
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)		
Naphtha, petroleum, hydrotreated light	33 - 42 mg/L (vapour)	> 5800 mg/kg	> 2920 mg/kg (No mortality)		

Other important toxicological hazards

: None reported by the manufacturer.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Toxic to aquatic life with long lasting effects. Do not allow material to contaminate ground water system.

See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

Ingradianta	CACNO	Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Naphtha, petroleum, hydrotreated light	64742-49-0	4.1 mg/L (Fathead minnow)	N/Av	None.		

<u>Ingredients</u>	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Naphtha, petroleum, hydrotreated light	64742-49-0	10 mg/L (Daphnia magna)	2.6 mg/L	None.		

<u>Ingredients</u>	CAS No	То	xicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Naphtha, petroleum, hydrotreated light	64742-49-0	11 mg/L/72hr (Green algae)	0.1 mg/L/72hr	None.		

Persistence and degradability

: Readily biodegradable.

Bioaccumulation potential : No information available.

	Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
r	Naphtha, petroleum, nydrotreated light (CAS 34742-49-0)	3.6 - 5.7	105-1216

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

Handling for Disposal

: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

: Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8.

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.



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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label				
TDG	UN1268	PETROLEUM DISTILLATES, N.O.S	3	II	3				
TDG Additional information	May be shipped exceeding 30 k	d as LIMITED QUANTITY when transported in quantities nog gross mass.	o larger than 1	Litre, in pac	ckages not				
49CFR/DOT	UN1268	PETROLEUM DISTILLATES, N.O.S	3	II	3				
49CFR/DOT Additional information	May be shipped exceeding 30 k	d as LIMITED QUANTITY when transported in quantities nog gross mass.	o larger than 1	Litre, in pac	ckages not				
ICAO/IATA	UN1268	PETROLEUM DISTILLATES, N.O.S	3	II	3				
ICAO/IATA Additional information	May be shipped exceeding 30 k	d as LIMITED QUANTITY when transported in quantities nog gross mass.	o larger than 1	Litre, in pac	ckages not				
IMDG	UN1268	PETROLEUM DISTILLATES, N.O.S	3	II	3 1				
IMDG Additional information	, , , , ,	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.							

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 meets the criteria for an environmentally hazardous substance according to the IMDG Code.See ECOLOGICAL INFORMATION, Section 12.

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:

In one die ate		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS # Inventor	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Naphtha, petroleum, hydrotreated light	64742-49-0	Yes	None.	None.	No	N/Ap	



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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Specific target organ toxicity, single exposure; Aspiration 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.

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	ty CA MA MN	MN	NJ	PA	RI	
Naphtha, petroleum, hydrotreated light	64742-49-0	No	N/Ap	No	No	No	No	No	No

Canadian Information:

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

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
Naphtha, petroleum, hydrotreated light	64742-49-0	265-151-9	Present	Present	(9)-1689	KE-25623	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

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation ECHA: European Chemicals Agency

ECOTOX: U.S. EPA Ecotoxicology Database

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IBC: Intermediate Bulk Container

IECSC: Inventory of Existing Chemical Substances



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IMDG: International Maritime Dangerous Goods

IOC: Inventory of Chemicals

IUCLID: International Uniform Chemical Information Database

KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List

LC: Lethal Concentration

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

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet / Material Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

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

Piological Exposure Indiana for 2016

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

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: 04/22/2016

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: 14/01/2019

Revision No. : 2

Revision Information : (M)SDS sections updated: 14. Transport information; 15. Regulatory information

Other special considerations for handling

: Provide adequate information, instruction and training for operators.



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Prepared for:

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