

Safety Data Sheet

Hi Sol 15

Version 1.11

Revision Date: 09/01/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hi Sol 15

Recommended use of the chemical and restrictions on use

Recommended use : Industrial chemical

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4
Carcinogenicity : Category 2
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)
Aspiration hazard : Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces.

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No smoking.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P331 Do NOT induce vomiting.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
64742-94-5	Solvent naphtha (petroleum), heavy arom.	90 - 100
91-20-3	**Naphthalene	5 - 10
526-73-8	**Benzene, 1,2,3-trimethyl-	5 - 10
95-63-6	**1,2,4-trimethylbenzene	5 - 10
25340-17-4	**Benzene, diethyl-	1 - 5
98-82-8	**Cumene	1 - 5

Any Concentration shown as a range is due to batch variation.

Special Notes: : Solvent naphtha impurities are listed in the composition but not included in the GHS classification.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Symptoms of poisoning may appear several hours later.
 Do not leave the victim unattended.

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If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO ₂) Dry chemical Foam
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Unidentified organic and inorganic compounds. Hydrogen sulfide sulfur oxides Sulphuric acid Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.
Keep in a well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
64742-94-5	Solvent naphtha (petroleum), heavy arom.	TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
		TWA	200 mg/m ³	ACGIH

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			(total hydrocarbon vapor)	
		TWA	400 ppm 1,600 mg/m ³	OSHA P0
91-20-3	**Naphthalene	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m ³	NIOSH REL
		ST	15 ppm 75 mg/m ³	NIOSH REL
		TWA	10 ppm 50 mg/m ³	OSHA Z-1
		TWA	10 ppm 50 mg/m ³	OSHA P0
		STEL	15 ppm 75 mg/m ³	OSHA P0
526-73-8	**Benzene, 1,2,3-trimethyl-	TWA	25 ppm 125 mg/m ³	NIOSH REL
		TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m ³	OSHA P0
95-63-6	**1,2,4-trimethylbenzene	TWA	25 ppm 125 mg/m ³	NIOSH REL
		TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m ³	OSHA P0
25340-17-4	**Benzene, diethyl-	TWA	5 ppm	US WEEL
98-82-8	**Cumene	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m ³	NIOSH REL
		TWA	50 ppm 245 mg/m ³	OSHA Z-1
		TWA	50 ppm 245 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

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

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

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- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : Clear, Colorless, yellow
- Odour : aromatic, hydrocarbon-like, sweet
- Odour Threshold : No data available
- pH : No data available
- Freezing Point (Melting point/freezing point) : < -50 °C (-58 °F)
- Freezing Point (Pour point) : < 20 °C (68 °F)
- Boiling Point (Boiling point/boiling range) : 179 - 217 °C (354 - 423 °F)
(1013 hPa)
- Flash point : 61 - 66 °C (142 - 151 °F)
Method: Tag closed cup
- Evaporation rate : < 1
(Butyl Acetate = 1)
- Flammability (solid, gas) : No data available
- Upper explosion limit : 7 %(V)
- Lower explosion limit : 0.6 %(V)
- Vapour pressure : < 10 mmHg @ 20 °C (68 °F)
- Relative vapour density : < 4.8 @ 20 - 25 °C (68 - 77 °F)
(Air = 1.0)
- Relative density : 0.88 - 0.91 @ 15.6 °C (60.1 °F)
Reference substance: (water = 1)
- Density : 0.88 - 0.91 g/cm³ @ 15.6 °C (60.1 °F)
- Solubility(ies)
Water solubility : negligible

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Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: 3.3 - 4.5 @ 25 °C (77 °F)
Auto-ignition temperature	: 445 - 510 °C
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 0.97 mPa.s @ 38 °C (100 °F)
Viscosity, kinematic	: 1.2 - 1.36 mm ² /s @ 25 °C (77 °F) 1.13 mm ² /s @ 40 °C (104 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Strong oxidizing agents Acids Plastics
Hazardous decomposition products	: Carbon oxides Nitrogen oxides (NO _x)

SECTION 11. TOXICOLOGICAL INFORMATION**Carcinogenicity****Components:****64742-94-5:**

Carcinogenicity - Assessment : Suspected human carcinogens

IARC

Group 2B: Possibly carcinogenic to humans

91-20-3

**Naphthalene

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98-82-8

**Cumene

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Reasonably anticipated to be a human carcinogen

91-20-3

**Naphthalene

STOT - single exposure

Components:

64742-94-5:

Assessment: May cause drowsiness or dizziness.

Aspiration toxicity

Components:

64742-94-5:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

64742-94-5:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1.4 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : NOEL (Raphidocelis subcapitata (freshwater green alga)): 1 mg/l
Exposure time: 48 h
Test Type: static test

EL50 (Raphidocelis subcapitata (freshwater green alga)): 1 - 3

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mg/l
 Exposure time: 72 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia magna (Water flea)): 0.48 mg/l
 Exposure time: 21 d

Acute aquatic toxicity- Assessment : Toxic to aquatic life.

Chronic aquatic toxicity- Assessment : Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

Components:

91-20-3:
 Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °C)
 pH: 7 - 7.5

526-73-8:
 Partition coefficient: n-octanol/water : Remarks: No data available

95-63-6:
 Partition coefficient: n-octanol/water : Remarks: No data available

98-82-8:
 Partition coefficient: n-octanol/water : log Pow: 3.55 (23 °C)

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
 Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
 Toxic to aquatic life with long lasting effects.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Do not re-use empty containers.
 Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1268, PETROLEUM DISTILLATES, N.O.S., (MIXTURE OF PETROLEUM DISTILLATES), CBL, III, Marine Pollutant (MIXTURE OF PETROLEUM DISTILLATES)

IATA (International Air Transport Association):

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (MIXTURE OF PETROLEUM DISTILLATES), 9, III

IMDG (International Maritime Dangerous Goods):

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (MIXTURE OF PETROLEUM DISTILLATES), 9, III, Marine Pollutant (MIXTURE OF PETROLEUM DISTILLATES), Flash Point: 61 - 66 °C (142 - 151 °F)

Special Notes:

: The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification

: B3: Combustible Liquid
 D2A: Very Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
**Naphthalene	91-20-3	100	1000
**Benzene	71-43-2	10	100000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Flammable (gases, aerosols, liquids, or solids)
 Carcinogenicity
 Specific target organ toxicity (single or repeated exposure)

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Aspiration hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

91-20-3	**Naphthalene
95-63-6	**1,2,4-trimethylbenzene
98-82-8	**Cumene

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

91-20-3	**Naphthalene
98-82-8	**Cumene

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489):

98-82-8	**Cumene
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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

91-20-3	**Naphthalene
71-43-2	**Benzene

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

91-20-3	**Naphthalene
71-43-2	**Benzene

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

91-20-3	**Naphthalene
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Massachusetts Right To Know

98-06-6	**Butylbenzene, tert-
105-05-5	**1,4-Diethylbenzene
91-20-3	**Naphthalene
95-63-6	**1,2,4-trimethylbenzene
141-93-5	**Benzene, 1,3-diethyl-
98-82-8	**Cumene
71-43-2	**Benzene

Pennsylvania Right To Know

64742-94-5	Solvent naphtha (petroleum), heavy arom.
98-06-6	**Butylbenzene, tert-
527-53-7	**Benzene, 1,2,3,5-tetramethyl-
95-93-2	**Benzene, 1,2,4,5-tetramethyl-
105-05-5	**1,4-Diethylbenzene
488-23-3	**1,2,3,4-Tetramethylbenzene
91-20-3	**Naphthalene
526-73-8	**Benzene, 1,2,3-trimethyl-
1074-43-7	**3-Propyltoluene
95-63-6	**1,2,4-trimethylbenzene

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496-11-7	**1H-Indene, 2,3-dihydro-
25340-17-4	**Benzene, diethyl-
141-93-5	**Benzene, 1,3-diethyl-
98-82-8	**Cumene
71-43-2	**Benzene

California Prop 65

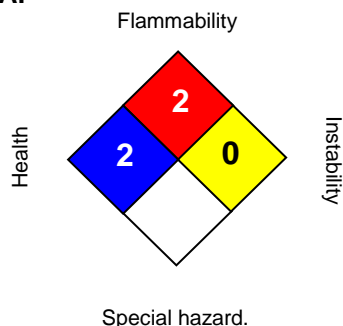
⚠ WARNING: This product can expose you to chemicals including **Naphthalene, **Cumene, **Benzene, which is/are known to the State of California to cause cancer, and **Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PHIL	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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Legacy SDS: : R0000563, 100000003776

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Material number:

16128575, 16121338, 16055889, 16055888, 16055887, 16055893, 16055892, 16055891, 16055895, 16055894, 16055890, 20048, 16061585, 16062036, 16048517, 772112, 763281, 716836, 699272, 671977, 623617, 554314, 554216, 554123, 554082, 554055, 554209, 547133, 547290, 70875, 69932, 53760, 102691, 102356, 86518, 53213, 53538, 69594, 70141, 87250, 86299, 103198, 102839, 127682, 508205, 506889, 20044, 20043, 20047, 20046, 20045

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		