

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hydro-Solv

Recommended use : Solvents and cleaners

Restrictions on use : None

Company : Drillchem Drilling Solutions, LLC
PO Box 132107
Spring, TX 77393 USA
Office: (281) 713-8941

Emergency telephone : (800) 424-9300 (24 Hours) CHEMTREC

number

Issuing date : 05/03/2023

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Aspiration Toxicity : Category 1

Skin Sensitizer : Category A1

Acute Aquatic Toxicity : Category 1

Chronic Aquatic Toxicity : Category 2

GHS Label element

Hazard pictograms :    

Signal Word : Danger

Hazard Statements : Flammable liquid and vapour
May be fatal if swallowed and enters airways
Causes skin irritation
Toxic to aquatic life with long lasting effects

Precautionary Statements :

Keep away from heat/sparks/open flames/hot surfaces. –No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rise mouth. IF ON SKIN (or hair): Take off immediately all contaminated

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clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do not induce vomiting. IF IN EYES: Rise cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. IF exposed or concerned: Call a POISON CENTER/doctor.

Storage:

Store in a well-ventilated place.

Disposal:

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

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS Number	EINECS No.	Weight %
Dipentene	Hydrocarbons, Terpene processing, by-product	68956-56-9	273-309-3	98 - 100
Antioxidant	4-methyl-2,6-di-tert-butylphenol	128-37-0	204-881-4	< 500 ppm
Fragrance package				0 - 2

Section: 4. FIRST AID MEASURES

In case of eye contact : Flush eyes with clean water for 15 minutes. If irritation persists, seek medical attention.

In case of skin contact : In Case of skin contact, wash thoroughly with soap and water.

If swallowed : Keep respiratory tract clear. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rise mouth with water. Get medical attention or contact a poison control center for advice.

If inhaled : Remove person to fresh air and keep at rest in a comfortable position for breathing. See a physician if breathing difficulty persists.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2)

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Unsuitable extinguishing media	: If water must be used, use as a spray only to lower temperature.
Specific hazards during firefighting	: Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Exercise care when disposing of rags contaminated with the product. Use normal precautions appropriate for oily rags.
Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides of phosphorus
Special protective equipment for firefighters	: Self-contained positive pressure breathing apparatus and protective clothing should be worn when fighting fire involving chemicals.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: ELIMINATE ALL SOURCES OF IGNITION. Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Wear appropriate personal protective equipment when cleaning up spills. Eliminate potential sources of ignition. Handling equipment must be bonded and grounded to prevent sparking.
Environmental precautions	: This product is a marine pollutant and is very toxic to aquatic organisms. Do not discharge into lakes, streams, ponds or public waters.
Methods and materials for containment and cleaning up	: Exercise caution. Eliminate potential sources of ignition. Use spark-proof tools and explosion-proof equipment. Dike and contain spill. Small spills may be absorbed by sand or oil- absorbing materials. Large spills should be collected by pumping into closed containers for recovery or disposal. Spills over water will float and may be collected by oil absorbents and/or by skimming.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	: Wear chemical safety glasses or goggles and chemically resistant gloves. A chemically resistant apron may be used to protect clothing. A respirator may be worn to prevent breathing spray mists or heated fumes. Take precautionary measures against static discharges.
Conditions for safe storage	: No smoking. Store in original container, preferably in a cool, ventilated, fire-resistant building. Avoid heat, sparks, and open flames. Empty containers may retain product residues (vapor, liquid, or solid) all label precautions must be observed.
Suitable material	: Not determined.
Unsuitable material	: Not determined.

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures	: Use in a well-ventilated area. Mechanical ventilation may be necessary at elevated temperatures to control odors.
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Personal protective equipment

Eye protection	: Wear chemical safety glasses, goggles or face shield. Provide eye bath near work site
Skin protection	: Wear chemically resistant rubber gloves and apron to minimize exposure.
Respiratory protection	: A respirator is not normally required. If vapor concentration is high, use a NIOSH approved organic vapor respirator or a properly fitted, air-purifying or air-fed respirator complying with an approved standard.
Hygiene measures	: When using do not eat or drink. Wash hands and other exposed areas of skin with soap and water after handling the material.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Colourless to pale yellow
Odour	: Not determined
Flash point	: 48°C (118°F) (TCC)
pH	: No data available
Odour Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 170°C (338°F)
Evaporation rate	: Approximately 4
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: approximately 2 mmHg@ 20°C
Relative vapour density	: > 1
Relative density	: 0.87 @25°C
Density	: No data available
Water solubility	: < 0.1
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

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temperature

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Molecular weight : No data available

VOC : No data available

Section: 10. STABILITY AND REACTIVITY

Chemical stability : Product is stable and not reactive under conditions of normal use.

Possibility of hazardous reactions : Hazardous polymerization will not occur.

Conditions to avoid : Prolonged or excessive heat and/or exposure to air may cause non-hazardous decomposition and/or oxidation.

Incompatible materials : May react with strong acids, bases, and oxidizing agents.

Hazardous decomposition products : Incomplete decomposition may produce carbon monoxide. Ultimate decomposition products are carbon dioxide and water.

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : No data available

Inhalation : No data available

Chronic Exposure : Prolonged exposure may cause skin irritation and/or sensitization.

Product

Acute oral toxicity : Limonene: LD50 (rat): > 5000 mg/kg.
Dipentene: LD50 (rat): > 3500 mg/kg

Acute dermal toxicity : Limonene: LD50 (rabbit): > 5000 mg/kg
Dipentene: LD50 (rabbit) > 5000 mg/kg

Skin corrosion/irritation : no data available

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Serious eye damage/eye irritation	: Contact with the undiluted material may cause eye irritation.
Respiratory or skin sensitization	: Product may contain trace amounts of oxidized material which are allergenic to sensitive individuals. Avoid repeated or prolonged contact with skin.
Carcinogenicity	: No component of the product is listed by IARC, ACGIH, and NTP
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available
STOT - single exposure	: No data available
STOT - repeated exposure	: No data available
Aspiration toxicity	: Component categorized as a Cat 1 Aspiration Hazard.

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects	: Product is a marine pollutant and is very toxic to aquatic organisms.
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Persistence and degradability

92.7% in 21 days per method CEC L33T82.

Mobility

No data available

Bioaccumulative potential

No data available

Other information

No data available

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods	: This material, if discarded, would be considered a hazardous waste by EPA regulations 40 CFR 261 due to flammability. Dispose of this material at a local, state or federally approved landfill, incinerator or recovery facility. User must determine proper disposal method and classification when material is declared a waste.
Disposal considerations	: Refer to Section 8 for information pertaining to personal

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protective equipment and exposure controls when handling this material for disposal.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

US DOT	: UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant
ICAO/IATA	: UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant
IMO/IMDG	: UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant
Shipping label	: Flammable Liquid (Cat 3), Marine Pollutant (Environmental Cat 1)
Exceptions	: Refer to 49 CFR §173.150 & §171.4

Section: 15. REGULATORY INFORMATION

Chemical Inventories Status

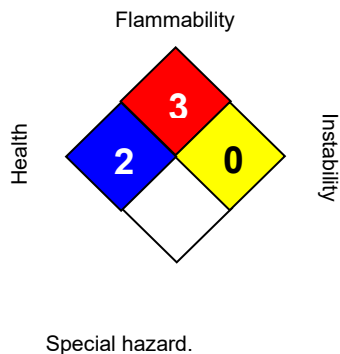
USA	: Compliant
Canada	: Compliant
European Community	: Compliant
Australia	: Compliant
Japan	: Compliant
Korea	: Compliant
Philippines	: Compliant
China	: Compliant
USA Federal & States	: Compliant
Information	: OSHA- Hazardous by definition of 29 CFR 1910.1200 (Flammability) SARA 311/312 Hazard Category- Fire Hazard and Immediate (Acute) Health

Section: 16. OTHER INFORMATION

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NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

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

Revision Date : 05/03/2023
Version Number : 1.0

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.