Safety Data Sheet



SECTION 1: Product and company identification

Product name : d-Solv LS
Use of the substance/mixture : Solvent
Product code : 0492

Company : Athea Laboratories, Inc.

P.O. Box 240014

Milwaukee, WI 53224 - USA

T (414) 354-6417

Emergency number : Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 3 H226 Skin Irrit. 2 H315 Skin Sens. 1 H317 Asp. Tox. 1 H304

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)







GHS02

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Flammable liquid and vapor

May be fatal if swallowed and enters airways

Causes skin irritation

May cause an allergic skin reaction

Precautionary statements (GHS-US) : Keep away from heat, hot surfaces, open flames, sparks. - No smoking

Keep container tightly closed

Ground/Bond container and receiving equipment

Use explosion-proof electrical, lighting, ventilating equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Avoid breathing mist, spray, vapors Wash thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace Wear eye protection, face protection, protective clothing, protective gloves

If swallowed: Immediately call a doctor, a POISON CENTER

If on skin: Wash with plenty of soap and water

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

Specific treatment (see First aid measures on this label)

Do NOT induce vomiting

If skin irritation occurs: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

Wash contaminated clothing before reuse

In case of fire: Use alcohol resistant foam, dry extinguishing powder, carbon dioxide (CO2) to

extinguish

Store in a well-ventilated place. Keep cool

Store locked up

Dispose of contents/container to comply with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Full text of H-phrases: see section 16

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3.2. Mixtures

Name	Product identifier	%	GHS-US classification
TERPENE HYDROCARBONS	(CAS-No.) 68956-56-9	65-80	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS-No.) 64742-47-8	15-25	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Alkanes, C14-16	(CAS-No.) 90622-46-1	3-8	Asp. Tox. 1, H304
citral	(CAS-No.) 5392-40-5	0.5-1.5	Skin Irrit. 2, H315 Skin Sens. 1, H317
Hydroxy citronellal	(CAS-No.) 107-75-5	0.1-1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Coumarin	(CAS-No.) 91-64-5	0.1-1	Acute Tox. 3 (Oral), H301 Skin Sens. 1, H317 STOT RE 2, H373

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

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

First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap

and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Rinse mouth with water. Do NOT induce

vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause an allergic skin reaction. Causes skin irritation. May be fatal if swallowed and enters

airways

Symptoms/effects after inhalation : Irritation of the respiratory tract. Coughing. Headache.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin

dryness or cracking.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Nausea.

Cramps/uncontrolled muscular contractions. Diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical powder.
Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Reactivity : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire

remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers.

Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No flames, no sparks. Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Gloves. Protective clothing.

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Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling

Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition - No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take

precautionary measures against static discharge.

Hygiene measures : Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the

workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be

followed.

Storage conditions : Keep container tightly closed.

Incompatible products : Oxidizing agent.
Incompatible materials : Sources of ignition.

Storage area : Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place.

Special rules on packaging : Keep only in original container, meet the legal requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TERPENE HYDROCARBONS (68956-56-9)

Not applicable

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)

Not applicable

Alkanes, C14-16 (90622-46-1)

Not applicable

Hydroxy citronellal (107-75-5)

Not applicable

citral (5392-40-5)

Not applicable

Coumarin (91-64-5)

Not applicable

8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Personal protective equipment

: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective goggles. Protective clothing.







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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear. red. Liquid.

Odor : Lime

Odor threshold No data available Ηq No data available Melting point No data available No data available Freezing point Boiling point No data available

: 127 °F Flash point

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** No data available Explosive properties : No data available Oxidizing properties No data available Vapor pressure : No data available Relative density : No data available Relative vapor density at 20 °C No data available 0.84 a/ml

Specific gravity / density

Solubility Insoluble in water. Log Pow No data available No data available Log Kow Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available

< 20 cSt Viscosity, kinematic

Viscosity, dynamic : No data available

VOC content : < 70 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO2 are formed.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)		
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Literature)	
Alkanes, C14-16 (90622-46-1)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.8 mg/l/4h	

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

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Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Coumarin (91-64-5)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
Specific target organ toxicity – repeated : Not classified

exposure

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/effects after inhalation : Irritation of the respiratory tract. Coughing. Headache.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin

dryness or cracking.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Nausea.

Cramps/uncontrolled muscular contractions. Diarrhoea.

Likely routes of exposure : Skin and eye contact

SECTION 12: Ecological information

12.1. Toxicity

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)		
LC50 fish 1	<= mg/l >0.1 - <=1,NOEC	
EC50 Daphnia 1	<= mg/l >1 - <=10,NOEC	
LC50 fish 2	> 100 mg/l (LC50)	
EC50 Daphnia 2	> 100 mg/l (EC50)	
Threshold limit algae 1	> 100 mg/l (EC50)	

12.2. Persistence and degradability

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil.

12.3. Bioaccumulative potential

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Log Pow	6 - 8.2
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description : UN1993 Flammable liquids, n.o.s. (Terpene hydrocarbons), 3, III

UN-No.(DOT) : UN1993

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid

FLAMMABLE LIQUID

Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : B1,B52,IB3,T4,TP1,TP29

DOT Packaging Exceptions (49 CFR : 150

173.xxx)

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LABORATORIES | PACKAGING

DOT Quantity Limitations Passenger

aircraft/rail (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft : 220 L

: 60 L

only (49 CFR 175.75)

DOT Vessel Stowage Location : A

Additional information

Emergency Response Guide (ERG) : 128

Number

Other information : This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D

utilizing the exception found at 49 CFR 173.150.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

of the philaded.	
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated
	exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

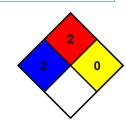
NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual

injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures

before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

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