

Solvonene 3 Aerosol

Safety Data Sheet

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SECTION 1: Product and company identification

Product name	: Solvonene 3 Aerosol
Use of the substance/mixture	: Solvent
Product code	: 8453
Company	: Total Solutions P.O. Box 240014 Milwaukee, WI 53224 - USA T 800-743-6417 athean.com
Contact:	Technical Department
Emergency number	: For 24/7 Chemical Emergency Call Chemtrec: 1-800-424-9300 (toll-free) and provide CCN 20036

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Aerosol 1	H222
Flam. Liq. 4	H227
Eye Dam. 1	H318
Skin Sens. 1	H317
Asp. Tox. 1	H304

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

Hazard statements (GHS US)

: Danger

: Extremely flammable aerosol
Combustible liquid

: May be fatal if swallowed and enters airways
May cause an allergic skin reaction
Causes serious eye damage

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container
Do not pierce or burn, even after use.
Avoid breathing mist, spray.
Wear eye protection, protective clothing, protective gloves.
Contaminated work clothing must not be allowed out of the workplace.
Take off immediately all contaminated clothing and wash it before reuse.
If swallowed: Immediately call a POISON CENTER, a doctor.
Do NOT induce vomiting.
If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice or attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a doctor, a POISON CENTER.
In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish.
Store in a well-ventilated place. Keep cool.
Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).
Store locked up.
Dispose of contents and 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

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3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Hydrotreated Light Alkanes	(CAS-No.) 64742-47-8	45 - 70*	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Undeceth-5	(CAS-No.) 34398-01-1	5-10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Dimethyl Glutarate (Solvent)	(CAS-No.) 1119-40-0	3 - 7*	Acute Tox. 4 (Oral), H302
d-Limonene	(CAS-No.) 5989-27-5	1-5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
Dimethyl Succinate (Solvent)	(CAS-No.) 106-65-0	1 - 5*	Eye Irrit. 2A, H319
Undecanol	(CAS-No.) 112-42-5	0.5-1.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. 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/doctor if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water. Soap may be used. 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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth with water. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: If you feel unwell, seek medical advice.
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: May cause respiratory irritation. May cause drowsiness or dizziness. Headache.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Nausea. Gastrointestinal complaints. Vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Carbon dioxide. Dry chemical powder.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol. Combustible liquid.
Reactivity	: Upon combustion: CO and CO ₂ 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.

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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.
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 product, collect/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

Precautions for safe handling	: Comply with the legal requirements. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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.
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	: Store in a well-ventilated place. Keep cool. Store locked up.
Incompatible products	: Oxidizing agent.
Incompatible materials	: Sources of ignition. Heat sources.
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

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ACGIH	Not applicable
OSHA	Not applicable

Dimethyl Glutarate (1119-40-0)

ACGIH	Not applicable
OSHA	Not applicable
Not applicable	

Dimethyl Succinate (106-65-0)

ACGIH	Not applicable
OSHA	Not applicable
Not applicable	

d-Limonene (5989-27-5)

ACGIH	Not applicable
OSHA	Not applicable
Not applicable	

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Undeceth-5 (34398-01-1)

ACGIH	Not applicable
OSHA	Not applicable
Not applicable	

Undecanol (112-42-5)

ACGIH	Not applicable
OSHA	Not applicable
Not applicable	

Hydrotreated Light Alkanes (64742-47-8)

ACGIH	Not applicable
OSHA	Not applicable
Not applicable	

8.2. Exposure controls

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



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear,orange,Liquid
Odour	: Citrus fruits
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 182 °F Closed cup
Relative evaporation rate (butylacetate=1)	: No data available
Flammability	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20°C	: No data available
Density	: 0.85 g/ml
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: ≤ 20 cSt
Viscosity, dynamic	: No data available
VOC content	: < 3 %

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.

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10.4. Conditions to avoid

No additional information available

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

Dimethyl Glutarate (1119-40-0)

LD50 oral rat	1920 mg/kg Source: IUCLID
LD50 dermal rat	8500 mg/kg Source: IUCLID
LC50 Inhalation - Rat	> 11 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Dimethyl Succinate (106-65-0)

LD50 oral rat	6892 mg/kg (Rat; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE CLP (oral)	6892 mg/kg bodyweight

d-Limonene (5989-27-5)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal, 7 day(s))

Undeceth-5 (34398-01-1)

LD50 oral rat	> 1400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg Source: Butch Company

Undecanol (112-42-5)

LD50 oral rat	> 15800 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	5010 – 7940 mg/kg bw/day (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.05 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE CLP (oral)	3000 mg/kg bodyweight
ATE CLP (dermal)	6475 mg/kg bodyweight

Hydrotreated Light Alkanes (64742-47-8)

LD50 oral rat	> 15000 mg/kg Source: IUCLID
LD50 dermal rabbit	> 2000 mg/kg Source: IUCLID
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -

Skin corrosion/irritation

: Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation

: Causes serious eye damage.

Respiratory or skin sensitisation

: May cause an allergic skin reaction.

Germ cell mutagenicity

: Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity

: Not classified (Based on available data, the classification criteria are not met)

d-Limonene (5989-27-5)

IARC group	3 - Not classifiable, 3 - Not classifiable
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Reproductive toxicity

: Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure

: Not classified (Based on available data, the classification criteria are not met)

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STOT-repeated exposure

: Not classified (Based on available data, the classification criteria are not met)

Hydrotreated Light Alkanes (64742-47-8)	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard

: May be fatal if swallowed and enters airways.

Symptoms/effects after inhalation

: EXPOSURE TO HIGH CONCENTRATIONS: May cause respiratory irritation. May cause drowsiness or dizziness. Headache.

Symptoms/effects after skin contact

: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact

: Causes serious eye damage.

Symptoms/effects after ingestion

: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Nausea.

Gastrointestinal complaints. Vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Dimethyl Glutarate (1119-40-0)	
LC50 - Fish [1]	30.9 ppm (EPA OTS 797.1400, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	112 – 150 ppm (EPA OTS 797.1300, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)

Dimethyl Succinate (106-65-0)	
LC50 - Fish [2]	50 – 100 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)
EC50 - Crustacea [2]	> 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit - Algae [1]	> 100 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

d-Limonene (5989-27-5)	
LC50 - Fish [1]	720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Measured concentration)
EC50 - Crustacea [1]	0.31 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Measured concentration)
LC50 - Fish [2]	702 µg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna
ErC50 algae	0.32 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Measured concentration)

Undeceth-5 (34398-01-1)	
LC50 - Fish [1]	3.9 mg/l Source: ECOTOX
EC50 - Crustacea [1]	< 10 mg/l
ErC50 algae	< 10 mg/l

Undecanol (112-42-5)	
LC50 - Fish [1]	1.04 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	0.765 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

Hydrotreated Light Alkanes (64742-47-8)	
LC50 - Fish [1]	2.4 mg/l Source: ECOTOX

12.2. Persistence and degradability

Dimethyl Glutarate (1119-40-0)

Persistence and degradability

Readily biodegradable in water.

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Dimethyl Succinate (106-65-0)	
Persistence and degradability	Readily biodegradable in water. Inherently biodegradable. Highly mobile in soil.
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d-Limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance
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Undecanol (112-42-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	3.07 g O ₂ /g substance

12.3. Bioaccumulative potential

Dimethyl Glutarate (1119-40-0)	
Partition coefficient n-octanol/water (Log Pow)	0.49 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Dimethyl Succinate (106-65-0)	
BCF - Fish [1]	3.16 (BCF; BCFBAF v3.00; Pisces)
Partition coefficient n-octanol/water (Log Pow)	0.33 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

d-Limonene (5989-27-5)	
BCF - Fish [1]	865 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.4 (Experimental value, Equivalent or similar to OECD 117, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).

Undeceth-5 (34398-01-1)	
Partition coefficient n-octanol/water (Log Pow)	4 Source: EPISUITE

Undecanol (112-42-5)	
Partition coefficient n-octanol/water (Log Pow)	4.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).

Hydrotreated Light Alkanes (64742-47-8)	
Partition coefficient n-octanol/water (Log Pow)	3.3 – 6 Source: IUCLID

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 (DOT) : UN1950 Aerosols, 2.1
UN-No. (DOT) : UN1950
Proper Shipping Name (DOT) : Aerosols
Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT) : 2.1 - Flammable gas



DOT Special Provisions (49 CFR 172.102) : N82
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A
DOT Vessel Stowage Other	: 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

Additional information

Emergency Response Guide (ERG) Number	: 126
Other information	: When transported by ground, this product may be eligible to be shipped as a Limited Quantity utilizing the exception found at 49 CFR 173.306. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not 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.

Undeceth-5 (34398-01-1)

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

⚠ WARNING

This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

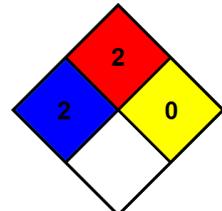
SECTION 16: Other information

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

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

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.