# Safety Data Sheet



## **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 (414) 354-6417

Emergency number : Chemtec: (800) 424-9300

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Classification (GHS-US)

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

Full text of H-phrases: see section 16

### 2.2. Label elements

## **GHS-US** labeling

Hazard pictograms (GHS-US)



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GHS05 GHS07

GHS

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Extremely flammable aerosol

Combustible liquid.

May be fatal if swallowed and enters airways

May cause an allergic skin reaction Causes serious eye damage

Precautionary statements (GHS-US)

Keep away from heat, open flames, sparks. - 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

Contaminated work clothing must not be allowed out of the workplace

Wear eye protection, protective clothing, protective gloves If swallowed: Immediately call a POISON CENTER, a doctor

If on skin: Wash with plenty of soap and water.

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

Do NOT induce vomiting

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

Store locked up

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

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. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

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Name	Product identifier	%	Classification (GHS-US)
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS No) 64742-47-8	30-60	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Alkanes, C14-16	(CAS No) 90622-46-1	10-30	Asp. Tox. 1, H304
UNDECETH-5	(CAS No) 34398-01-1	5-10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
(+)-limonene	(CAS No) 5989-27-5	1-5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304

### **SECTION 4: First aid measures**

First-aid measures after ingestion

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 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.

: Rinse mouth with water. Do NOT induce vomiting. Immediately call a poison center or

doctor/physician.

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

Symptoms/injuries : If you feel unwell, seek medical advice.

Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: May cause respiratory irritation. May cause drowsiness

or dizziness. Headache.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries 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.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol. Combustible liquid.

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.

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.

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#### 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

No additional information available

### 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.



: No data available





## **SECTION 9: Physical and chemical properties**

Relative evaporation rate (butyl acetate=1)

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear, orange liquid.

Odor Citrus scent

Odor 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

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 Specific gravity / density : 0.85 g/ml

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

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TOTAL SOLUTIONS

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.

## 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

Acute toxicity	. Not diassified		
(+)-limonene (5989-27-5)			
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)		
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)		
ATE CLP (oral)	4400.000 mg/kg body weight		
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 ma/ka		

Aikanes, 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

## UNDECETH-5 (34398-01-1)

LD50 oral rat

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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

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

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

(+)-limonene (5989-27-5)		
	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)

> 1400 ma/ka

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

Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: May cause respiratory irritation. May cause

drowsiness or dizziness. Headache.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye damage.

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

Gastrointestinal complaints. Vomiting.

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## **SECTION 12: Ecological information**

## 12.1. Toxicity

(+)-limonene (5989-27-5)		
LC50 fish 1	720 μg/l (96 h; Pimephales promelas; Lethal)	
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)	
LC50 fish 2	702 μg/l (96 h; Pimephales promelas)	
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)	
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)	
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)		
LC50 fish 1	> 100 mg/l (Pisces)	
EC50 Daphnia 1	> 100 mg/l (Invertebrata)	
Threshold limit algae 1	> 100 mg/l (Algae)	
UNDECETH-5 (34398-01-1)		
LC50 fish 1	< 10 mg/l	
EC50 Daphnia 1	< 10 mg/l	
ErC50 (algae)	< 10 mg/l	

## 12.2. Persistence and degradability

(+)-limonene (5989-27-5)		
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.	
ThOD	3.29 g O /g substance	
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

(+)-limonene (5989-27-5)		
BCF fish 1	864.8 - 1022 (Pisces; Fresh weight)	
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)	
Bioaccumulative potential	Potential for bioaccumulation (4 Log Kow 5).	
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

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

## **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

#### **Additional information**

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 173.306.

#### 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 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.

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UNDECETH-5 (34398-01-1)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

## **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:

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Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H222	Extremely flammable aerosol
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury

unless prompt medical attention is given.

NFPA fire hazard : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in

air and will burn readily.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



## 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.

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