# SAFETY DATA SHEET SPECTRUM®



Revision date 12-July-2022 Revision Number 2

# 1. Identification

**Product identifier** 

**Product Name** 1,2,3,4-TETRAHYDRONAPHTHALENE

Other means of identification

Product Code(s) T2017

UN/ID no NA1993

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use

No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

# 2. Hazard(s) identification

## Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Aspiration hazard	Category 1
Flammable liquids	Category 4

# Hazards not otherwise classified (HNOC)

Not applicable

## **Label elements**

Danger

## Hazard statements

Harmful if swallowed

Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
May be fatal if swallowed and enters airways
Combustible liquid, n.o.s. (1,2,3,4-tetrahydronaphthalene)



Appearance Clear Physical state Liquid Odor Aromatic

# **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from flames and hot surfaces. - No smoking

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

IF IN EYES: 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 IF ON SKIN: Wash with plenty of water and soap

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam to extinguish

## **Precautionary Statements - Storage**

Store locked up.

Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

# 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
1,2,3,4-Tetrahydronaphthalene	119-64-2	100	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures

### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention. Immediate medical attention is required.

**Inhalation** Aspiration into lungs can produce severe lung damage. If breathing has stopped, give

artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed

pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical

advice/attention.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and

tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed

unless the risk is justified by the presence of additional toxic substances.

# 5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical

Large Fire

Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

**Explosion data** 

Sensitivity to mechanical impact none.

Sensitivity to static discharge yes

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do

not touch or walk through spilled material. Ensure adequate ventilation. Avoid contact with

skin, eyes or clothing.

**Other information** Refer to protective measures listed in Sections 7 and 8.

# Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

# 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat,

hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of

children. Store locked up. Store away from other materials.

# 8. Exposure controls/personal protection

# Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

# **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

## **General hygiene considerations**

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid Appearance Clear

**Color** Colorless to pale yellow

**Odor** Aromatic

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

no data available None known рΗ Melting point / freezing point -35 °C / -31 °F None known Boiling point / boiling range 207 °C / 404.6 °F None known Flash point 77 °C / 170.6 °F None known **Evaporation rate** no data available None known Flammability (solid, gas) no data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownVapor densityno data availableNone knownRelative density0.97None knownWater solubilityInsoluble in waterNone knownSolubility(ies)Soluble in AlcoholNone known

Miscible with Benzene Miscible with Chloroform Miscible with Acetone Soluble in Petroleum Ether

Partition coefficientNo data availableNone knownAutoignition temperatureno data availableNone knownDecomposition temperatureNone known

Kinematic viscosity

no data available

None known

No data available

None known

Other information

Explosive properties
Oxidizing properties
No information available

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

Conditions to avoid Heat, flames and sparks.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

#### Information on likely routes of exposure

**Product Information** 

Inhalation Specific test data for the substance or mixture is not available. Aspiration into lungs can

produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be

fatal. May cause irritation of respiratory tract.

Specific test data for the substance or mixture is not available. Irritating to eyes. (based on Eve contact

components). Causes serious eye irritation.

Repeated exposure may cause skin dryness or cracking. Specific test data for the Skin contact

substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if

> swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness **Symptoms** 

and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2,3,4-Tetrahydronaphthalene 119-64-2	= 1620 µL/kg (Rat) = 2860 mg/kg (Rat)	= 16800 mg/kg ( Rabbit )	-

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Respiratory or skin sensitization

Classification based on data available for ingredients. Causes serious eye irritation.

Germ cell mutagenicity

No information available. No information available.

No information available. Reproductive toxicity

STOT - single exposure STOT - repeated exposure

**Aspiration hazard** 

No information available. No information available.

May be fatal if swallowed and enters airways.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

Ecotoxicity	I oxic to aqua	atic life. I oxic to ac	quatic life wit	ith long lasting	effects.

Chemical name   Algae/aquatic plants   Fish   Loxicity to   Crustacea	Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
---	---------------	----------------------	------	-------------	-----------

			microorganisms	
1,2,3,4-Tetrahydronaphth	EC50: =7mg/L (72h,	LC50: =3.2mg/L (96h,	-	EC50: =9.5mg/L (48h,
alene	Desmodesmus	Brachydanio rerio)		Daphnia magna)
119-64-2	subspicatus)			

Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

**Component Information** 

	Chemical name	Partition coefficient
1,2,3,4-Tetrahydronaphthalene		3.78
	119-64-2	

Other adverse effects No information available.

# 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging

Do not reuse empty containers.

# 14. Transport information

DOT

products

NA1993 UN/ID no

**Proper Shipping Name:** Combustible liquid, n.o.s. Hazard class Combustible liquid

Packing group:

**Special Provisions** IB3, T1, TP1, 148

1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene Marine pollutant

**Description:** NA1993, Combustible liquid, n.o.s. (1,2,3,4-Tetrahydronaphthalene), III, Marine pollutant

(1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene)

**Emergency Response Guide** 

Number

171

**TDG** 

UN-No: UN3082

**Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s.

**Hazard class Packing Group:** Ш **Special Provisions** 16, 99

Marine pollutant 1,2,3,4-Tetrahydronaphthalene.

UN3082, Environmentally hazardous substance, liquid, n.o.s. **Description:** 

(1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene), 9, III

MEX

**UN-No** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard class** 

274, 331, 335 **Special Provisions** 

**Packing Group** Ш

Description UN3082, Environmentally hazardous substance, liquid, n.o.s.

(1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene), 9, III

IATA

UN3082 **UN** number

Environmentally hazardous substance, liquid, n.o.s. **Proper Shipping Name:** 

Transport hazard class(es) 9
Packing group III
ERG Code 9L

Special Provisions A97, A158, A197

**Description:** UN3082, Environmentally hazardous substance, liquid, n.o.s.

(1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene), 9, III

<u>IMDG</u>

UN number UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Packing group III
EmS-No F-A, S-F
Special Provisions 274, 335, 969

Marine pollutant F

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.

(1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene), 9, III, Marine pollutant

RID

UN number UN3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es) 9
Packing group III
Classification code M6

**Special Provisions** 274, 335, 375, 601

Description: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(1,2,3,4-TETRAHYDRONAPHTHALENE, 1,2,3,4-TETRAHYDRONAPHTHALENE,

1,2,3,4-TETRAHYDRONAPHTHALENE, 1,2,3,4-TETRAHYDRONAPHTHALENE), 9, III

Labels

**ADR** 

UN number UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Packing group III
Classification code M6
Tunnel restriction code (-)

**Special Provisions** 274, 335, 601, 375

**Description:** UN3082, Environmentally hazardous substance, liquid, n.o.s.

(1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene,

1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene), 9, III, (-)

Labels 9

**ADN** 

UN/ID No UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Packing Group III
Classification code M6

**Special Provisions** 274, 335, 375, 601

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.

(1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene,

1,2,3,4-Tetrahydronaphthalene, 1,2,3,4-Tetrahydronaphthalene), 9, III

Hazard label(s) 9
Limited quantity (LQ) 5 L
Equipment Requirements PP

# 15. Regulatory information

### **International Inventories**

TSCA Complies

DSL/NDSL Complies EINECS/ELINCS Complies

**ENCS** This product complies with ENCS: **IECSC** This product complies with China:

KECL Does not Comply

PICCS Complies

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances (AICS).

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
1,2,3,4-Tetrahydronaphthalene	-	-	Present
119-64-2			

#### U.S. EPA Label Information

## EPA Pesticide Registration Number Not applicable

# 16. Other information

#### **NFPA**

Health hazards 2

Flammability 2 Instability 0

Physical and chemical properties -

**HMIS** 

Health hazards 2 \*
Flammability 2
Physical hazards 0
Personal protection X
Chronic Hazard Star Legend

\* = Chronic Health Hazard

## Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 12-July-2022

**Revision Note**No information available.

**Disclaimer** 

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.

**End of Safety Data Sheet**