# SAFETY DATA SHEET SPECTRUM®



Revision date 27-April-2020

**Revision Number** 1

#### 1. Identification

**Product identifier** 

Product Name CAFFEINE, ANHYDROUS, USP

Other means of identification

Product Code(s) C4036

UN/ID no UN1544

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 3

### Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

Danger

## Hazard statements

Toxic if swallowed



Appearance Crystalline Physical state Solid Odor Odorless

**Precautionary Statements - Prevention** 

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

**Precautionary Statements - Response** 

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Rinse mouth

**Precautionary Statements - Storage** 

Store locked up

**Precautionary Statements - Disposal** 

Dispose of contents/container to an approved waste disposal plant

Other information

No information available.

# 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
Caffeine, Anhydrous	58-08-2	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.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

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

Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

# 5. Fire-fighting measures

surrounding environment.

Large Fire 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

No information available.

Hazardous combustion products Carbon Monoxide, Carbon Dioxide. Nitrogen oxides (NOx).

**Explosion data** 

Sensitivity to mechanical impact none.

Sensitivity to static discharge none

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 Ensure adequate ventilation.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Storage Conditions**Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

# 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

No special protective equipment required. Eye/face protection

Skin and body protection No special protective equipment required.

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** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid Crystalline **Appearance** Color white Odorless Odor

**Odor threshold** No information available

**Property** Values Remarks • Method

pH of a 1% solution = 6.9 Hq None known . 236 - 238 °C / 456.8 - 460.4 Melting point / freezing point None known

None known Boiling point / boiling range no data available Flash point no data available None known **Evaporation rate** no data available None known no data available Flammability (solid, gas) None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapor pressure Vapor density no data available None known 1.23 Relative density None known Water solubility Partially soluble in cold water None known

Soluble in hot water

Freely soluble in pyrrole; in None known Solubility(ies)

tetrahydrofuran containing about 4%

water

Partially soluble in acetone Partially soluble in alcohol Slightly soluble in Petroleum Ether

Soluble in ethyl acetate Soluble in pyridine

Very slightly soluble in diethyl ether

No data available Partition coefficient None known no data available None known **Autoignition temperature** 

**Decomposition temperature** None known no data available Kinematic viscosity None known **Dynamic viscosity** No data available None known

Other information

**Explosive properties** No information available Oxidizing properties No information available Softening point No information available

Molecular weight 194.19

VOC Content (%)
Liquid Density
No information available
No information available
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**None known based on information supplied.

**Incompatible materials**None known based on information supplied.

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.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available. Toxic if swallowed. (based

on components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Caffeine, Anhydrous	= 192 mg/kg (Rat)	-	-
58-08-2			

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

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity

No information available.
No information available.
No information available.
No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen

The table bold i indicated inferrer cash agency has noted any ingredient as a carolinegen.				
Chemical name	ACGIH	IARC	NTP	OSHA
Caffeine, Anhydrous	-	Monograph 51 [1991]	-	-
58-08-2				

Legend

Reproductive toxicity No information available.

STOT - single exposure STOT - repeated exposure Aspiration hazard No information available. No information available. No information available.

Other adverse effects

No information available.

Interactive effects

No information available.

# 12. Ecological information

**Ecotoxicity** 

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Caffeine, Anhydrous	-	LC50: =151mg/L (96h,	-	EC50: =182.12mg/L (4h,
58-08-2		Pimephales promelas)		Daphnia species)

Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

**Component Information** 

Chemical name	Partition coefficient
Caffeine, Anhydrous	-0.07
58-08-2	

Other adverse effects No information available.

## 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused

products

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

UN/ID no UN1544

Proper Shipping Name: Alkaloids, solid, n.o.s.

Hazard class 6.1
Packing group:

Special Provisions IB8, IP3, T1, TP33
Marine Pollutant Severe Marine Pollutant

**Description:** UN1544, Alkaloids, solid, n.o.s., 6.1, III

**Emergency Response Guide** 15

Number

**TDG** 

**UN-No:** UN1544

**Proper Shipping Name:** Alkaloid salts, solid, n.o.s.

Hazard class 6.1 Packing Group:

**Description:** UN1544, Alkaloid salts, solid, n.o.s., 6.1, III

MEX

**UN-No** UN1544

Proper Shipping Name Alkaloids, solid, n.o.s.

Hazard class 6.1

Special Provisions 43, 223,274

Packing Group III

**Description** UN1544, Alkaloids, solid, n.o.s., 6.1, III

ICAO (air)

**UN-No:** UN1544

**Proper Shipping Name:** Alkaloid salts, solid, n.o.s.

Hazard class 6.1 Packing Group:

Special Provisions A3, A5, A6

**Description:** UN1544, Alkaloid salts, solid, n.o.s., 6.1, III

IATA

UN number UN1544

Proper Shipping Name: Alkaloid salts, solid, n.o.s.

Transport hazard class(es) 6.1
Packing group

**Description:** UN1544, Alkaloid salts, solid, n.o.s., 6.1, III

**IMDG** 

UN number UN1544

Proper shipping name Alkaloids, solid, n.o.s.

Transport hazard class(es) 6.1
Packing group III
EmS-No F-A, S-A
Special Provisions 43, 223, 274

Marine pollutant NP1

**Description** UN1544, Alkaloids, solid, n.o.s., 6.1, III

<u>RID</u>

UN number UN1544

**Proper Shipping Name:** Alkaloids, solid, n.o.s.

Transport hazard class(es) 6.1
Packing group III
Classification code T2
Special Provisions 43, 274

**Description:** UN1544, Alkaloids, solid, n.o.s., 6.1, III

Labels 6.1

<u>ADR</u>

UN number 1544

Proper Shipping Name: Alkaloids, solid, n.o.s.

Transport hazard class(es) 6.1
Packing group III
Classification code T2
Tunnel restriction code (E)
Special Provisions 43, 274

**Description:** 1544, Alkaloids, solid, n.o.s., 6.1, III, (E)

Labels 6.1

ADN

UN/ID No UN1544

**Proper shipping name** Alkaloids, solid, n.o.s.

Transport hazard class(es) 6.1
Packing Group III
Classification code T2

Special Provisions 274, 43, 802

**Description** UN1544, Alkaloids, solid, n.o.s., 6.1, III

Hazard label(s) 6.1 Limited quantity (LQ) 5 kg Equipment Requirements PP, EP

# 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 Complies 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**

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA

Health hazards 0 Flammability 0 Instability 0

Physical and chemical properties -

**HMIS** 

Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

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 27-April-2020

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**