

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/23/2019 Revision date: 10/23/2019 Version: 1.0

# **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : Florida TRPH Standard

Product code : AL0-130884

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3 Supplier

Phenova

6390 Joyce Dr. Suite 100

Golden, CO 80403 - United States T 1-866-942-2978 - F 1-866-283-0269

info@phenova.com - www.phenova.com1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924

ChemTel Assistance (International) +1 813-248-0585

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids H225 Highly flammable liquid and vapour

Category 2

Skin corrosion/irritation H315 Causes skin irritation

Category 2

Serious eye damage/eye H319 Causes serious eye irritation

irritation Category 2

Specific target organ H372 Causes damage to organs through prolonged or repeated exposure

toxicity (repeated exposure)

Category 1

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

Hazard statements (GHS US) : H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation H319 - Causes serious eye irritation

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

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P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

# Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
carbon disulfide (Component)	(CAS-No.) 75-15-0	96.6

Full text of hazard classes and H-statements: see section 16

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

4.1.	Description of first aid measures
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First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention. If you feel unwell, seek medical advice (show the label where

possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash

with plenty of soap and water. Wash contaminated clothing before reuse. Get medical

advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

# 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Causes skin irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide.

Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapor-air mixture.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

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 : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking

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#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **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

  : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking Use only non-sparking tools. Obtain special instructions
  - of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before

reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a

well-ventilated place. Keep away from any flames or sparking source. Keep only in the original

container in a cool, well ventilated place away from :

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Direct sunlight. Heat sources. Sources of ignition.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Florida TRPH Standard		
ACGIH	Local name	Carbon disulfide
ACGIH	ACGIH TWA (ppm)	1 ppm
ACGIH	Remark (ACGIH)	PNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	100 ppm 30 mins.
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA

carbon disulfide (75-15-0)		
ACGIH	Local name	Carbon disulfide
ACGIH	ACGIH TWA (ppm)	1 ppm
ACGIH	Remark (ACGIH)	PNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	100 ppm 30 mins.
OSHA	Remark (OSHA)	(2) See Table Z-2.
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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

### Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

#### Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration. Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses. Safety glasses

### Skin and body protection:

Wear suitable protective clothing. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

### Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):







### Other information:

**Explosion limits** Explosive properties

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

9.1.			
	Information on		

Physical state : Liquid

> : Colorless characteristic

Odor threshold : No data available рΗ : No data available

: No data available Melting point Freezing point : No data available Boiling point No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour.

Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available : No data available Solubility Log Pow : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic

Oxidizing properties

: No data available

: No data available

: No data available

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### Other information

No additional information available

# SECTION 10: Stability and reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

# 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

Strong acids. Strong bases.

# 10.6. Hazardous decomposition products

May release flammable gases. fume. Carbon monoxide. Carbon dioxide.

# SECTION 11: Toxicological information

### Information on toxicological effects

Acute toxicity : Not classified

carbon disulfide (75-15-0)	
LD50 oral rat	3188 mg/kg (Rat, Oral)
LC50 inhalation rat (mg/l)	25 mg/l (2 h, Rat, Inhalation)
ATE US (oral)	3188 mg/kg body weight
ATE US (vapors)	25 mg/l/4h
ATE US (dust, mist)	25 mg/l/4h

Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified Reproductive toxicity STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Causes skin irritation.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

carbon disulfide (75-15-0)	
LC50 fish 1	4 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Poecilia reticulata)
EC50 Daphnia 1	2.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)

# 12.2. Persistence and degradability

Florida TRPH Standard	
Persistence and degradability	Not established.

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carbon disulfide (75-15-0)	
Persistence and degradability	Biodegradability in soil: no data available. Readily biodegradable in water.
12.3. Bioaccumulative potential	
Florida TRPH Standard	
Bioaccumulative potential	Not established.

Florida TRPH Standard	
Bioaccumulative potential	Not established.
carbon disulfide (75-15-0)	
BCF fish 1	4.3 - 8 (Pisces)
BCF fish 2	< 60 (Cyprinus carpio, Test duration: 6 weeks)
Log Pow	1.94 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

# 12.4. Mobility in soil

carbon disulfide (75-15-0)	
Surface tension	0.032 N/m (20 °C)

### 12.5. Other adverse effects

Florida TRPH Standard	
carbon disulfide (75-15-0)	

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

13.1. Disposal methods

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

contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

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

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

# Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1131 Carbon disulfide (carbon disulfide), 3 (6.1), I

UN-No.(DOT) : UN1131

Proper Shipping Name (DOT) : Carbon disulfide

carbon disulfide

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

Packing group (DOT) : I - Great Danger

Subsidiary risk (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 3 - Flammable liquid

6.1 - Poison



DOT Packaging Non Bulk (49 CFR 173.xxx) : 201 DOT Packaging Bulk (49 CFR 173.xxx) : 243

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DOT Special Provisions (49 CFR 172.102)

: B16 - The lading must be completely covered with nitrogen, inert gas or other inert materials.

T14 - 6 6 mm Prohibited 178.275(g)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP7 - The vapor space must be purged of air by nitrogen or other means.

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is

transported by sea.

DOT Packaging Exceptions (49 CFR 173.xxx) : None

DOT Quantity Limitations Passenger aircraft/rail : Forbidden

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : Forbidden

CFR 175.75)

**DOT Vessel Stowage Location** 

: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger

vessels in which the limiting number of passengers is exceeded.

: 40 - Stow "clear of living quarters",78 - Stow "separated longitudinally by an intervening **DOT Vessel Stowage Other** 

complete compartment or hold from" explosives 115 - If packaged in glass or earthenware inner packaging in wooden or fiberboard outer packaging, the maximum quantity on any vessel

is 500 kg (equivalent to 450 L)

Emergency Response Guide (ERG) Number

Other information

: No supplementary information available.

**Transportation of Dangerous Goods** 

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 1131 CARBON DISULPHIDE (carbon disulfide), 3 (6.1), I (-30°C c.c.)

UN-No. (IMDG) : 1131

: CARBON DISULPHIDE Proper Shipping Name (IMDG) Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : I - substances presenting high danger

Subsidiary risks (IMDG) : 6.1 - Toxic substances

Limited quantities (IMDG) . 0

### Air transport

Transport document description (IATA) : UN 1993 Flammable liquid, n.o.s., 3, II

: 1993 UN-No. (IATA)

Proper Shipping Name (IATA) : Flammable liquid, n.o.s. Class (IATA) : 3 - Flammable Liquids Packing group (IATA) : II - Medium Danger

# **SECTION 15: Regulatory information**

15.1. US Federal regulations

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carbon disulfide (75-15-0)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313				
Listed on EPA Hazardous Air Pollutant (HAPS)				
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.			
CERCLA RQ	100 lb			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb			

# 15.2. International regulations

### **CANADA**

#### carbon disulfide (75-15-0)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

No additional information available

### **National regulations**

### carbon disulfide (75-15-0)

Listed on EPA Hazardous Air Pollutant (HAPS)

#### 15.3. US State regulations

carbon disulfide (75-15-0)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	Yes	Yes		

# SECTION 16: Other information

Revision date : 10/23/2019

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

### Full text of H-phrases:

H225	Highly flammable liquid and vapour	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H372	Causes damage to organs through prolonged or repeated exposure	

### Phenova US SDS REV

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