

# **Safety Data Sheet**

Version 1.4 Revision Date: June 2, 2023

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: WaveTrace<sup>™</sup> Solvent C

Product number: 20275

Supplier: Quveon, Inc.

599 Raleigh Road Suite C Henderson, NC 27536

USA

Telephone: 1 800 471 3575 Fax: 1 213 283 3909

Emergency Phone # 1 800 424 9300 (CCN812765)

#### 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

## **OSHA Hazards**

Flammable liquid, Irritant, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Carcinogen, Teratogen

#### **Target Organs**

Eyes, Kidney, Liver, Heart, Central nervous system, Blood

## **GHS Classification**

Flammable liquids (Category 2)

Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Dermal (Category 3)

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

Reproductive toxicity (Category 1B)

Specific target organ toxicity - single exposure (Category 1)

Specific target organ toxicity - repeated exposure (Category 2)

Acute aquatic toxicity (Category 2)

Chronic aquatic toxicity (Category 2)

## **GHS** Label elements, including precautionary statements

Pictogram









Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or inhaled.

H314 Causes severe skin burns and eye damage H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

H373 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P201 Obtain special instructions before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in well-ventilated area

P273 Avoid release to the environment

P280 Wear protective gloves/eye protection/face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
P361 Remove/Take off immediately all contaminated clothing

P363 Wash contaminated clothing before reuse

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction

P391 Collect spillage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed

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

**HMIS Classification** 

Health hazard 3

Chronic health hazard \*

Flammability 3 Physical hazards 3

**NFPA Rating** 

Health hazard 3
Fire 3
Reactivity hazard 0

**Potential Health Effects** 

InhalationToxic if inhaled. Causes respiratory tract irritation.SkinToxic if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation **Ingestion** Toxic if swallowed

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Hazardous	Concentration
Methanol	67-56-1	Yes	20 – 80 %
Chloroform	67-66-3	Yes	20 - 80 %
Imidazole	288-32-4	Yes	5 – 10 %
Sulfur Dioxide	7446-09-5	Yes	5 – 10 %

#### 4. FIRST AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move the person to fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take the victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **5. FIREFIGHTING MEASURES**

#### **Conditions of flammability**

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus if necessary.

# **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions include carbon oxides, nitrogen oxides, sulfur oxides, hydrogen iodide, hydrogen cyanide (hydrocyanic acid).

# **Additional information**

Use water spray to cool unopened containers

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#### **6. ACCIDENTAL RELEASE MEASURES**

## **Personal precautions**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

## **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

# Methods and materials for containment and cleaning up

Contain spillage and collect with an electrically protected vacuum cleaner or by wet-brushing and place in a container for disposal according to local regulations.

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#### 7. HANDLING AND STORAGE

# Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof electrical equipment. Keep away from all sources of ignition. No smoking. Take measures to prevent the buildup of an electrostatic charge.

# **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated location. Opened containers must be carefully resealed and kept upright to prevent leakage.

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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component	Exposure limits
Methanol	ACGIH TLV (United States, 2/2010). Absorbed through skin.
	TWA: 200 ppm 8 hour(s)
	TWA: 262 mg/m <sup>3</sup> 8 hour(s)
	STEL: 250 ppm 15 minute(s)
	STEL: 328 mg/ m <sup>3</sup> 15 minute(s)
	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin
	TWA: 200 ppm 8 hour(s)
	TWA: 260 mg/ m <sup>3</sup> 8 hour(s)
	STEL: 250 ppm 15 minute(s)
	STEL: 325 mg/ m <sup>3</sup> 15 minute(s)
	NIOSH REL (United States, 6/2009). Absorbed through skin
	TWA: 200 ppm 10 hour(s)
	TWA: 260 mg/ m <sup>3</sup> 10 hour(s)
	STEL: 250 ppm 15 minute(s)
	STEL: 325 mg/ m <sup>3</sup> 15 minute(s)
	OSHA PEL (United States, 11/2006)
	TWA: 200 ppm 8 hour(s)
	TWA: 260 mg/ m <sup>3</sup> 8 hour(s)
Chloroform	NIOSH REL (United States, 6/2009)
	ST: 2 ppm
	OSHA PEL 1989 (United States, 3/1989)
	TWA: 50 ppm

Sulfur Dioxide

ACGIH TLV (United States, 2/2010)

STEL: 0.25 ppm 15 minute(s)

NIOSH REL (United States, 6/2009)

TWA: 2 ppm 10 hour(s)

TWA: 5 mg/ m³ 10 hour(s)

STEL: 5 ppm 15 minutes

STEL: 13 mg/ m³ 15 minute(s)

OSHA PEL (United States, 11/2006)

TWA: 5 ppm 8 hour(s)

TWA: 13 mg/ m³ 8 hour(s)

OSHA PEL 1989 (United States, 3/1989)

TWA: 2 ppm 8 hour(s)

TWA: 5 mg/ m³ 8 hour(s)

STEL: 5 ppm 15 minute(s)

## **Engineering measures**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## Personal protective equipment

**Respiratory protection.** Where risk assessment shows air purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection.** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection.** Tightly fitting safety goggles. Face shield. Use equipment for eye protection tested and approved under appropriate government standards.

**Skin and body protection.** Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form liquid

Color colorless or with light yellow color

pH 5.0 – 6.0 at 20 C (68 F) Melting point no data available

Boiling point 56 C (131 F) at 1013 hPa (760 mmHg)

Flash point 9 C (48 F) – closed cup Ignition temperature no data available Autoignition temperature no data available Density 1.140 g/cm3 water solubility no data available

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#### 10. STABILITY AND REACTIVITY

## **Chemical stability**

Stable under recommended storage conditions

#### Possibility of hazardous reactions

Vapors may form explosive mixture with air

#### Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight

#### Materials to avoid

Zinc, Acids, Oxidizing agents, Alkali metals, Iron, Copper, Acid chlorides, Acid anhydrides, Reducing agents, Acids, Lithium, Sodium/sodium oxides, Magnesium

## **Hazardous decomposition products**

Decomposition products under recommended storage conditions – no data available

Hazardous decomposition products formed under fire conditions – carbon oxides, nitrogen oxides, sulfur oxides, hydrogen iodide, hydrogen cyanide (hydrocyanic acid)

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#### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

#### **Oral LD50**

No data available

## **Inhalation LC50**

No data available

## **Dermal LD50**

No data available

# Other information on acute toxicity

No data available

#### Respiratory or skin sensitization

No data available

#### Carcinogenicity

IARC: 2B – Group 2B: Possibly carcinogenic to humans (Chloroform)

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Sulfur dioxide)

NTP: Reasonably anticipated to be a human carcinogen (Chloroform)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA

## Reproductive toxicity

No data available

## **Teratogenicity**

No data available

## Specific target organ toxicity – single exposure (Globally Harmonized System)

No data available

## Specific target organ toxicity – repeated exposure (Globally Harmonized System)

May cause damage to organs through prolonged or repeated exposure

## **Aspiration hazard**

No data available

#### Potential health effects

**Inhalation** Toxic if inhaled. Causes respiratory tract irritation

**Ingestion** Toxic if swallowed

**Skin** Toxic if absorbed through skin. Causes skin irritation

**Eyes** Causes eye irritation

#### Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Synergistic effects**

No data available

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Data not available

#### **Products of Biodegradation**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

## **Toxicity of the Products of Biodegradation**

The products of biodegradation are as toxic as the original product

## 13. DISPOSAL CONSIDERATIONS

Reagent that cannot be saved for recovery and recycling should be handled as hazardous waste and sent to an RCRA-approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from the federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1230 Class: 3 Packing group: II

Proper shipping name: Methanol, solution Reportable quantity (RQ): 5000 lbs Marine pollutant: No Poison Inhalation Hazard: No

## **IMDG**

UN number: 1230 Class: 3 (6.1) Packing group: II

Proper shipping name: Methanol, solution

Marine pollutant: No

**IATA** 

UN number: 1230 Class: 3 (6.1) Packing group: II

Proper shipping name: Methanol, solution

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#### **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

Flammable liquid, Irritant, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Carcinogen, Teratogen

## **SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Chloroform	67-66-3	2008-11-03
Sulfur dioxide	7446-09-5	2007-03-01

# **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01
Chloroform	67-66-3	2008-11-03

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

## **Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01
Chloroform	67-66-3	2008-11-03
Sulfur dioxide	7446-09-5	2007-03-01

## **Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01
Chloroform	67-66-3	2008-11-03
Imidazole	288-32-4	
Sulfur dioxide	7446-09-5	2007-03-01

# **New Jersey Right To Know Components**

	CAS-No.	<b>Revision Date</b>
Methanol	67-56-1	2007-07-01
Chloroform	67-66-3	2008-11-03
Imidazole	288-32-4	
Sulfur dioxide	7446-09-5	2007-03-01

## **California Prop. 65 Components**

WARNING! This product contains a chemical known to the State of California to cause cancer.

Chloroform 67-66-3 2008-11-03

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

 Methanol
 67-56-1
 2012-03-16

 Chloroform
 67-66-3
 2008-11-03

 Sulphur Dioxide
 7446-09-5
 2011-09-02

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#### **16. OTHER INFORMATION**

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