

# SAFETY DATA SHEET

**Issuing Date** no data available

Revision Date 16-Oct-2015

**Revision Number 1** 

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Volatiles in Soil

Product Number 721 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Laboratory use only
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier ERA a Waters Company

Supplier Address 16341 Table Mountain Parkway, Golden, CO 80403 USA

Non-Emergency Telephone Number +1-303-431-8454 Supplier Email sdsinfo@waters.com

Emergency telephone number

Company Emergency Phone In case of EMERGENCY call CHEMTREC Day or Night

Number Within USA and Canada: 800-424-9300 International Call Collect: +1-703-527-3887

Danger

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Specific target organ toxicity (single exposure)	Category 1
Flammable Liquids	Category 2

### GHS Label elements, including precautionary statements

**Emergency Overview** 

Signal word

Hazard Statements
Toxic if inhaled

Causes damage to organs

Highly flammable liquid and vapor



Appearance Clear, colorless

Physical state Liquid->Liquid

Odor Alcohol

\_\_\_\_\_\_

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

IF exposed: Call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

# **Unknown Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

Harmful to aquatic life with long lasting effects

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

### Interactions with Other Chemicals

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Note: only the components contributing to the product's GHS hazard classification are listed in this section.

Chemical Name	CAS-No	Percent
Methanol	67-56-1	99.17 - 99.86

### 4. FIRST AID MEASURES

#### First aid measures

Show this safety data sheet to the doctor in attendance. Immediate medical attention is **General Advice** 

required.

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

eve wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin.

Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel

should) give oxygen.

Ingestion Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give

anything by mouth to an unconscious person. Call a physician or poison control center

immediately.

Self-protection of the first aider 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.

Most important symptoms and effects, both acute and delayed

Coughing and/ or wheezing. Difficulty in breathing. Most Important Symptoms and

**Effects** 

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**Uniform Fire Code** Highly Toxic: Liquid

Flammable Liquid: I-B

**Hazardous Combustion Products** 

Carbon oxides. **Explosion Data** 

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Full encapsulating, vapor protective clothing should be worn for

spills and leaks with no fire. Stop leak if you can do it without risk.

Other Information

**Environmental precautions** 

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment A vapor suppressing foam may be used to reduce vapors. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for

later disposal. Soak up with inert absorbent material. Pick up and transfer to properly

labeled containers.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory

equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. Use only with adequate ventilation and in closed systems. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding

connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers.

Use according to package label instructions.

### Conditions for safe storage, including any incompatibilities

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

of children. Protect from moisture. Store away from other materials. Store locked up. 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. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular

national regulations. Store in accordance with local regulations.

Incompatible Products

None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methanol	STEL: 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>
		(vacated) TWA: 260 mg/m <sup>3</sup>	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 325 mg/m <sup>3</sup>
		(vacated) STEL: 325 mg/m <sup>3</sup>	
		(vacated) S*	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

**Appropriate engineering controls** 

Engineering Measures Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

Eye/face protection
Skin and body protection

**Hygiene Measures** 

Tight sealing safety goggles.

Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant

apron. Impervious gloves. Antistatic boots.

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. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. No information available. Regular cleaning of equipment, work area and clothing is

recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the

None known

None known

workplace.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical stateLiquid->LiquidAppearanceClear, colorlessOdorAlcohol

Color No information available Odor Threshold No information available

PropertyValuesRemarksMethodpHUNKNOWNNone knownMelting / freezing pointno data availableNone knownBoiling point / boiling rangeno data availableNone knownFlash Pointno data availableC / 72 FNone known

Flash Point no data available C / 72 F None known Flammability (solid, gas) no data available None known Flammability Limit in Air

Upper flammability limit no data available Lower flammability limit no data available Vapor pressure no data available

None known no data available Vapor density **Specific Gravity** None known 0.791 Soluble in water None known Water Solubility Solubility in other solvents no data available None known Partition coefficient: n-octanol/waterno data available None known no data available **Autoignition temperature** None known **Decomposition temperature** no data available None known Kinematic viscosity no data available None known

Dynamic viscosityno data availableExplosive propertiesno data availableOxidizing propertiesno data available

# Other Information

Softening Point no data available Particle Size no data available

**Particle Size Distribution** 

### 10. STABILITY AND REACTIVITY

### Reactivity

no data available.

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to avoid

Excessive heat. Heat, flames and sparks.

#### Incompatible materials

None known based on information supplied.

#### **Hazardous Decomposition Products**

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. Toxic by inhalation. (based

on components).

**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. Toxic in contact with skin.

May be absorbed through the skin in harmful amounts. (based on components).

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

on components).

**Component Information** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000
67-56-1			ppm (Rat)4h

#### Information on toxicological effects

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

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

**Sensitization** No information available.

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

**Reproductive toxicity**No information available.

STOT - single exposure Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29

CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based

on toxicology studies for this product, but is based solely on toxicology studies for

ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product. Causes damage to organs if swallowed.

Causes damage to organs in contact with skin.

STOT - repeated exposure Chronic Toxicity No information available.

No known effect based on information supplied. Effects from this product caused by acute

exposure may cause permanent damage to target organs and/or may cause chronic

conditions.

Target Organ Effects
Aspiration Hazard

Respiratory system. Systemic Toxicity.

No information available.

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

100.00 mg/kg

ATEmix (dermal)

300.00 mg/kg (ATE)

ATEmix (inhalation-dust/mist)

0.50 mg/L

ATEmix (inhalation-vapor)

3.00 ATEmix

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Wate Flea)
Methanol		96h LC50: = 28200 mg/L		
67-56-1		(Pimephales promelas) 96h		
		LC50: > 100 mg/L		
		(Pimephales promelas) 96h		
		LC50: 19500 - 20700 mg/L		
		(Oncorhynchus mykiss) 96h		
		LC50: 18 - 20 mL/L		
		(Oncorhynchus mykiss) 96h		
		LC50: 13500 - 17600 mg/L		
		(Lepomis macrochirus)		

### Persistence and Degradability

No information available.

**Bioaccumulation** 

Chemical Name	Log Pow
Methanol	-0.77
67-56-1	

### Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated Packaging US EPA Waste Number

Dispose of contents/containers in accordance with local regulations.

D001 D018 D021 D022 D027 D028 D033 D034 D039 D040 D043 U002 U003 U019 U029 U037 U042 U043 U044 U045 U055 U066 U067 U068 U070 U071 U072 U075 U076 U077 U078 U079 U080 U083 U084 U121 U128 U131 U154 U159 U161 U165 U208 U209 U210

U211 U220 U225 U226 U227 U228 P003 P022

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methanol		Included in waste stream:		U154
67-56-1		F039		

#### California Hazardous Waste Codes 212

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methanol	Toxic
67-56-1	Ignitable

### 14. TRANSPORT INFORMATION

DOT Not regulated UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Subsidiary class 6.1
Packing Group II

Reportable Quantity (RQ) (RQ/% ETHANE, 1,2-DIBROMO-: RQ KG= 4540.00, 2-PROPENAL: RQ KG= 4540.00,

in mixture) METHANOL: RQ KG= 2273.18, VINYL CHLORIDE: RQ KG= 4540.00,

HEXACHLOROBUTADIENE: RQ KG= 4540.00, 1,2-DIBROMO-3-CHLOROPROPANE:

RQ KG= 4540.00

**Description** UN1230, METHANOL, 3 (6.1), II, RQ

**Emergency Response Guide** 

Number

TDG Not regulated UN-No. UN1230

Proper Shipping Name METHANOL
Hazard Class 3, (6.1)
Subsidiary class 6.1
Packing Group II

Description UN1230, METHANOL, 3 (6.1), II

**MEX** 

UN-No. UN1230
Proper Shipping Name METHANOL

Hazard Class 3 Subsidiary class 6.1 Packing Group II

**Description** UN1230, METHANOL, 3 (6.1), II

<u>ICAO</u>

UN-No. UN1230
Proper Shipping Name METHANOL

Hazard Class 3
Subsidiary class 6.1
Packing Group ||

**Description** UN1230, METHANOL, 3 (6.1), II

IATANot regulatedUN-No.UN1230Proper Shipping NameMETHANOL

Hazard Class 3 Subsidiary class 6.1 Packing Group II

**Description** UN1230, METHANOL, 3 (6.1), II

IMDGNot regulatedUN-No.UN1230Proper Shipping NameMETHANOL

Hazard Class 3
Subsidiary class 6.1
Packing Group II
EmS-No. F-E. S-D

**Description** UN1230, METHANOL, 3 (6.1), II, (22°C C.C.)

**RID** 

**UN-No.** UN1230

Proper Shipping Name METHANOL

Hazard Class 3
Packing Group II
Classification code FT1

Description UN1230, METHANOL, ENVIRONMENTALLY HAZARDOUS, 3 (6.1), II

ADR/RID-Labels 6.1

**ADR** 

UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Packing Group II
Classification code FT1
Tunnel restriction code (D/E)

Description UN1230, METHANOL, ENVIRONMENTALLY HAZARDOUS, 3 (6.1), II

ADR/RID-Labels 3 6.1

ADN

UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Packing Group II
Classification code FT1
Special Provisions 279, 8

Description UN1230, METHANOL, ENVIRONMENTALLY HAZARDOUS, 3 (6.1), II

 Hazard Labels
 3 + 6.1

 Limited Quantity
 1 L

 Ventilation
 VE01, VE02

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

IECSC -

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Percent	SARA 313 - Threshold Values %
Methanol - 67-56-1	67-56-1	99.17 - 99.86	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

**CWA (Clean Water Act)** 

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
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Methanol	5000 lb	RQ 5000 lb final RQ
67-56-1		RQ 2270 kg final RQ

# US State Regulations California Proposition 65

Camornia Proposition 65

This product contains the following Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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International Regulations

Component	Carcinogen Status	Exposure Limits
Methanol		Mexico: TWA 200 ppm
67-56-1 (99.17 - 99.86)		Mexico: TWA 260 mg/m <sup>3</sup>
		Mexico: STEL 250 ppm
		Mexico: STEL 310 mg/m <sup>3</sup>

### Canada WHMIS Hazard Class

Not determined

# **16. OTHER INFORMATION**

NFPA Health Hazards 4 Flammability 3 Instability 0 Physical and Chemical Hazards - HMIS Health Hazards 3 \* Flammability 3 Physical Hazard 0 Personal Protection

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

**Revision Date** 16-Oct-2015

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

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## **End of Safety Data Sheet**