



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Produced Salt Water  
**Other means of identification**  
**SDS number** 9  
**Recommended use** By-Product  
**Recommended restrictions** None known.  
**Manufacturer / Importer / Supplier / Distributor information**

**Company name** DCP Midstream  
**Address** 370 17 Street Suite 2500 Denver, CO 80202  
**Telephone** (303) 595-3331  
**E-mail** safety@dcpmidstream.com  
**Contact person** Mark Prewitt  
**Emergency phone number** CHEMTREC - 24 HOURS: 800-424-9300

## 2. Hazard(s) identification

**Physical hazards** Not classified  
**Health hazards** Germ cell mutagenicity Category 1B  
Carcinogenicity Category 1A

**OSHA hazard(s)** Not Classified

### Label elements

#### Hazard symbol



**Signal word** Danger  
**Hazard statement** May cause genetic effects. May cause cancer.

#### Precautionary statement

**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.

**Response** Not available.

**Storage** Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** Not classified.

**Supplemental Information** May contain an upper layer of flammable liquid and vapor hydrocarbons. Vapor accumulation can flash or explode when ignited.

## 3. Composition/information on ingredients

### Mixture

#### Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Sodium Chloride		7647-14-5	5-10
Benzene		71-43-2	<1
Toluene		108-88-3	<1
Xylene		1330-20-7	<1

**Non-Hazardous components**

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	90-95

**Composition comments**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**4. First-aid measures****Inhalation**

Move to fresh air. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Skin contact**

Remove contaminated clothing and shoes. Wash affected area with mild soap and water. Get medical attention if irritation develops and persists.

**Eye contact**

Immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Ingestion**

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

**Most important symptoms/effects, acute and delayed**

Not available

**Indication of immediate medical attention and special treatment needed**

Treat symptomatically. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.

**General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**5. Fire-fighting measures****NFPA 704 Hazard Class**

Health: 0

Flammability: 1

Instability: 0

(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

**Suitable extinguishing media**

Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media**

Not available.

**Specific hazards arising from the chemical**

Vapor accumulation can flash or explode when ignited.

**Special protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace..

**Fire-fighting equipment/instructions**

Keep upwind. Containers close to fire should be removed or cooled with water. Use standard firefighting procedures and consider the hazards of other involved materials.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Stay upwind. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid inhalation of vapors and spray mist and contact with skin and eyes.

Wear suitable protective clothing, gloves and eye/face protection. For personal protection, see section 8 of the SDS.

#### Methods and materials

##### for containment and cleaning up

Remove sources of ignition. Beware of the explosion danger. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.  
Small Spills: Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.  
Large Spills: Remove with vacuum trucks or pump to storage/salvage vessels. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

#### Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment.

## 7. Handling and storage

### Precautions for safe handling

Provide adequate ventilation. Avoid inhalation of vapors/mist and contact with skin and eyes. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Ground container and transfer equipment to eliminate static electric sparks. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Use non-sparking hand tools and explosion-proof electrical equipment. Wear appropriate personal protective equipment. Immediately change contaminated clothes. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices. Use only bottom loading of tankers, in compliance with European legislation. Do not use compressed air for filling, discharging, or handling operations. Empty containers may contain flammable product residues.

### Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Follow rules for flammable liquids. Keep away from heat, spark, open flames and other sources of ignition. Store in a cool, dry place. Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs. Store away from incompatible materials.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	5 ppm
	TWA	1 ppm

#### U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Xylene (CAS 1330-20-7)	PEL	435 mg/m <sup>3</sup>
		100 ppm

#### U.S. OSHA Table Z-2 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Benzene (CAS 71-43-2)	Ceiling	25 ppm
	TWA	10 ppm
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

## U.S. ACGIH Threshold Limit Values

Components	Type	Value
Benzene (CAS 109-66-0)	STEL	2.5 ppm
	TWA	0.5 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

## US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Benzene (CAS 109-66-0)	REL	0.1 ppm
	STEL	1 ppm
Toluene (CAS 108-88-3)	REL	375 mg/m <sup>3</sup>
		100 ppm
	STEL	560 mg/m <sup>3</sup>
Xylene (CAS 1330-20-7)	REL	435 mg/m <sup>3</sup>
		100 ppm
	STEL	655 mg/m <sup>3</sup>
		150 ppm

## Biological Limit Values

### US. ACGIH. BEIs. Biological Exposure Indices

Components	Value	Determinant
Benzene (CAS 71-43-2)	25 µg/g	S-Phenylmercapturic acid
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis
Xylene (CAS 1330-20-7)	0.4 mg/l	Methylhippuric acids

\* - For sampling details, please see the source document.

## Exposure guidelines

### US. ACGIH Threshold Limit Values

**Benzene (CAS 71-43-2)** Can be absorbed through the skin.

### US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

**BENZENE (CAS 71-43-2)** Can be absorbed through the skin.

**TOLUENE; TOLUOL (CAS 108-88-3)** Can be absorbed through the skin.

### US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

**Toluene (CAS 108-88-3)** Skin designation applies.

### US. Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.)

**Benzene (CAS 71-43-2)** Can be absorbed through the skin.

**Toluene (CAS 108-88-3)** Can be absorbed through the skin.

**Xylene (CAS 1330-20-7)** Can be absorbed through the skin.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

If risk of splashing, wear safety goggles or face shield.

### Skin protection Hand protection

Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

### Other

Normal work clothing (long sleeved shirts and long pants) is recommended.

<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
<b>Thermal hazards</b>	When material is heated, wear gloves to protect against thermal burns.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

## 9. Physical and chemical properties

<b>Appearance</b>	Clear. Opaque. Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Color</b>	Clear. Opaque
<b>Odor</b>	Salty. Slight Hydrocarbon.
<b>Odor threshold</b>	Not available.
<b>pH</b>	4.9- 8.5
<b>Melting point/freezing point</b>	< 32 °F (< 0 °C)
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	4 %
<b>Flammability limit – upper (%)</b>	46 %
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	1.2
<b>Relative density</b>	>1 (Water=1)
<b>Relative density temperature</b>	68 °F (20 °C)
<b>Solubility(ies)</b>	Soluble in water
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
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<b>Chemical stability</b>	Stable under normal temperature conditions.
<b>Possibility of hazardous Reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames and sparks. Elevated temperatures and incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition Products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Inhalation</b>	In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.
<b>Skin contact</b>	Prolonged skin contact may cause temporary irritation.
<b>Eye contact</b>	Direct contact may irritate.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Dry skin. Irritation. Drowsiness and dizziness.

### Information on toxicological effects

<b>Acute toxicity</b>	Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness.
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Components	Species	Test Results
Benzene (CAS 71-43-2)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	930 mg/kg
Sodium chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	3000 mg/kg
Toluene (CAS 108-88-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	364 mg/l, 4 Hours
<i>Inhalation</i>		
LC50	Rat	49000 mg/m <sup>3</sup> , 4 Hours
<i>Oral</i>		
LC50	Rat	636 mg/kg

Xylene (CAS 1330-20-7)

**Acute**

*Oral*

LD50

Rat

4300 mg/kg

**Skin corrosion/irritation** Not available.  
**Serious eye damage/eye Irritation** Not available.  
**Respiratory sensitization** Not classified.  
**Skin sensitization** Not a skin sensitizer.  
**Germ cell mutagenicity** May cause genetic defects.  
**Carcinogenicity** May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Benzene (CAS 71-43-2) 1 Carcinogenic to humans.  
Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.  
Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

**NTP Report on Carcinogens**

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Benzene (CAS 71-43-2) Cancer hazard.

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not available.

**Chronic effects** Contains benzene. Human epidemiology studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-producing system and serious blood disorders, including leukemia. Animal tests suggest that prolonged and/or repeated overexposure to benzene may damage the embryo/fetus. The relevance of these animal studies to humans has not been fully established.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
Produced Salt Water (CAS Mixture)		
<b>Aquatic</b>		
Fish	EC50	Daphnia
		303.0866 mg/l, 48 hours, estimated

Components			Species	Test Results
Benzene (CAS 71-43-2)				
<b>Aquatic</b>				
	Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 Hours
	Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	5 mg/l, 96 Hours
Sodium chloride (CAS 7647-14-5)				
<b>Aquatic</b>				
	Crustacea	EC50	Water flea (Daphnia magna)	340.7 - 469.2 mg/l, 48 hours
Toluene (CAS 108-88-3)				
<b>Aquatic</b>				
	Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
	Fish	LC50	Coho salmon, silver salmon (Oncorhynchus kisutch)	5.5 mg/l, 96 hours
Xylene (CAS 1330-20-7)				
<b>Aquatic</b>				
	Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	8 mg/l, 96 Hours

**Persistence and degradability** The degradability of the product has not been stated. The product meets the definition of the International Oil Pollution Compensation (IPOC) Fund as being a "non-persistent" oil. Bioaccumulative potential.

**Partition coefficient n-octanol / water (log Kow)**

Benzene	2.13
Toluene	2.73
Xylene	3.2

**Mobility in soil** Not available.  
**Other adverse effects** Not established.

### 13. Disposal considerations

**Disposal instructions** Dispose in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.

**Local disposal regulations** Dispose of in accordance with local regulations.

**Hazardous waste code** Waste codes should be assigned by the user based on the application for which the product was used.

**Waste from residues / unused products** Dispose in accordance with all applicable regulations.

**Contaminated packaging** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

**DOT** Not regulated as a hazardous material by DOT.

**IATA** Not regulated as a dangerous good.

**IMDG** Not regulated as a dangerous good.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available



## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Benzene (CAS 71-43-2) 29 CFR 1910.1028

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Benzene (CAS 71-43-2) LISTED

Toluene (CAS 108-88-3) LISTED

Xylene (CAS 1330-20-7) LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous Chemical** Yes

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Toluene (CAS 108-88-3) 594

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations** WARNING: This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

**US. Massachusetts RTK - Substance List**

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Benzene (CAS 71-43-2) 500 LBS

Toluene (CAS 108-88-3) 500 LBS

Xylene (CAS 1330-20-7) 500 LBS

**US. Pennsylvania RTK - Hazardous Substances**

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

**US. Rhode Island RTK**

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

## 16. Other information, including date of preparation or last version

**Issue date** 11-28-2012

**Revision date** – 2-6-2013

**Version #** 01

**Further information** Not available.

### References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

IARC Monographs. Overall Evaluation of Carcinogenicity

National Toxicology Program (NTP) Report on Carcinogens

**Disclaimer** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.