

## SAFETY DATA SHEET

Prepared in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200

### SECTION 1: IDENTIFICATION

<b>PRODUCT</b>	<b>TIRE RUBBER POLYMER MODIFIED CATIONIC EMULSION</b>
<b>SYNONYMS</b>	CRS-2TR, CQS-TR, CSS-TR, CRS-TR
<b>RECOMMENDED USE</b>	No Information Available
<b>RECOMMENDED RESTRICTIONS</b>	No Information Available

### MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION

<b>MANUFACTURER</b>	Wright Asphalt Products Company
<b>ADDRESS</b>	11931 Wickchester Lane, Suite 101 Houston, TX 77043-4501
<b>WEBSITE</b>	www.wrightasphalt.com
<b>TELEPHONE</b>	1-800-882-6541
<b>24-HOUR EMERGENCY</b>	CHEMTREC North America 1-800-424-9300; International 1-703-527-3887

### SECTION 2 : HAZARD(S) IDENTIFICATION

#### EMERGENCY OVERVIEW HEALTH HAZARDS

This product is a tan to dark brown viscous liquid with a mild odor. Exposure to this product can be irritating to the eyes, respiratory system, and skin. Heated material can cause thermal burns. Heated material may liberate hydrogen sulfide. Long-term exposure to high concentrations of asphalt fumes may cause chronic bronchitis and pneumonitis.

#### ENVIRONMENTAL HAZARDS

The environmental effects of this product have not been investigated. This material is not expected to be toxic to aquatic organisms.

#### LABEL ELEMENTS

US DOT Symbol

Canada (WHMIS)Symbol

European and GHS Hazard Symbol

Non-Regulated



Signal Word **Warning!**

#### GHS Hazard Classification(s) Hazard Statements

Acute Toxicity Inhalation Category 4

H319: Causes serious eye injury

H315: Causes skin irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation

#### Precautionary Statements

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash hands thoroughly after handling

P271: Use only in well-ventilated area

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

#### Hazard Symbol(s)

Warning

\* Harmful if inhaled

#### Risk Phrases

R26: Very toxic by inhalation

R36/37/38: Irritating to eyes, respiratory system and skin

#### Safety Phrases

S24/25: Avoid contact with skin and eyes

**Material Name: Tire Rubber Polymer Modified Cationic Emulsion**

0011 Version #: 01 Issue Date: 05-29-2015

S36: Wear suitable protective clothing  
S37/39: Wear suitable gloves and eye/face protection  
S45: In case of accident or if you feel unwell, seek medical advice immediately.

#### SUPPLEMENTAL INFORMATION

Vapors containing hydrogen sulfide may accumulate during storage or transport. HYDROGEN SULFIDE (H<sub>2</sub>S) can be harmful or fatal if inhaled. H<sub>2</sub>S is a flammable gas.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	PERCENT
PETROLEUM ASPHALT	Bitumen, Asphalt, Asphalt Cement	8052-42-4	50-70
WATER		7732-18-5	30-50
EMULSIFIER		TSCA Listed	0.1-8
POLYMER MODIFIER		TSCA Listed	0-6
GROUND TIRE RUBBER		133-86-4	5
NAPHTHENIC/AROMATIC OIL		64742-0407	< 0.5
CARBON BLACK		1333-86-4	< 0.3
ZINC OXIDE		1314-13-2	< 0.05
HYDROCHLORIC ACID	HCl, Muratic Acid	7647-01-0	< 1

#### COMPOSITION COMMENTS

Values do not reflect absolute minimums and maximums; these values are typical and may vary from time to time. Asphaltic materials can contain hydrogen sulfide, because it is naturally occurring in the crude oil from which asphalt is derived. Hydrogen sulfide can also be present as a byproduct of asphalt processing. This Safety Data Sheet is intended to communicate potential health hazards and potential physical hazards associated with the product(s) covered by this sheet, and it not intended to communicate product specific information.

### SECTION 4 : FIRST-AID MEASURES

#### INHALATION

If respiratory symptoms develop from exposure to fumes, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is no breathing, clear airway and immediately begin artificial respiration. If breathing becomes difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

#### SKIN CONTACT

If clothing sticks to the skin, do not remove. Lotion or hand cream may aid in the removal of asphalt. Wash contact areas with soap and water. If needed, seek medical attention.

#### EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. If irritation or redness develops from exposure to fumes, move victim away from exposure and into fresh air. Flush eyes with clean water.

#### INGESTION

Rinse mouth. DO NOT induce vomiting. Get medical attention immediately. If ingestion of a large amount does occur, call a poison control center immediately.

#### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Direct contact with eyes may cause temporary irritation.



#### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

#### GENERAL INFORMATION

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

### SECTION 5: FIRE-FIGHTING MEASURES

#### SUITABLE EXTINGUISHING MEDIA

Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### UNSUITABLE EXTINGUISHING MEDIA

Water. Do not use water jet as an extinguisher, as this will spread the fire.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Fire may cause irritating and toxic gases or fumes may be released.

#### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, rubber boots, and in enclosed spaces, SCBA. Structural firefighter's protective clothing will only provide limited protection.

#### FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS

ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Use of foam or water may cause frothing.

#### SPECIFIC METHODS

In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

#### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

This product is miscible in water.

**LARGE SPILLS:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

**SMALL SPILLS:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Ventilate area and avoid breathing vapors or mist. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

**ENVIRONMENTAL PRECAUTIONS** Avoid discharge into drains, water courses or onto the ground.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid prolonged exposure. Use only in well-ventilated areas. Hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

### CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Do not allow material to freeze.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### OCCUPATIONAL EXPOSURE LIMITS

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m <sup>3</sup>

#### US. ACGIH THRESHOLD LIMIT VALUES

Components	Type	Value	Form
PETROLEUM ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m <sup>3</sup>	Inhalable fraction
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	2 ppm	

#### US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS

Components	Type	Value	Form
PETROLEUM ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m <sup>3</sup>	Fume
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m <sup>3</sup>	
		5 ppm	

### BIOLOGICAL LIMIT VALUES

No biological exposure limits noted for the ingredient(s).

### APPROPRIATE ENGINEERING CONTROLS

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT

<b>EYE/FACE PROTECTION</b>	Safety glasses. Wear chemical goggles if there is a risk of splashes.
<b>HAND PROTECTION</b>	Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.
<b>OTHER</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact. Plastic or rubber gloves, apron and boots.
<b>RESPIRATORY PROTECTION</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>THERMAL HAZARDS</b>	Wear appropriate thermal protective clothing, when necessary.

### GENERAL HYGIENE CONSIDERATIONS

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.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Brown/black liquid
PHYSICAL STATE	Liquid
COLOR	tan to dark brown
ODOR	Mild
ODOR THRESHOLD	Not Available
pH	2.1-4
MELTING POINT/FREEZING POINT	Not Available
INITIAL BOILING POINT	212°F (100 °C)
FLASH POINT	400.0 °F (204.4 °C) COC
EVAPORATION RATE	< 1
FLAMMABILITY (SOLID, GAS)	Not Available
FLAMMABILITY LIMIT – LOWER (%)	Not Available
FLAMMABILITY LIMIT - UPPER (%)	Not Available
EXPLOSIVE LIMIT – LOWER (%)	Not Available
EXPLOSIVE LIMIT – UPPER (%)	Not Available
VAPOR PRESSURE	< 1 mm Hg at 70°F
VAPOR DENSITY	> 1
RELATIVE DENSITY	0.8 - 1.10
SOLUBILITY (WATER)	Soluble
PARTITION COEFFICIENT (n-octanol/water)	Not Available
AUTO-IGNITION TEMPERATURE	> 700 °F (> 371.11 °C)
DECOMPOSITION TEMPERATURE	Not Available
VISCOSITY	Not Available

**SECTION 10: STABILITY & REACTIVITY**

**REACTIVITY**

The product is stable and non-reactive under normal conditions of use, storage and transport.

**CHEMICAL STABILITY**

Stable under normal temperature conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS**

Hazardous polymerization does not occur.

**CONDITIONS TO AVOID**

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not overheat product.

**INCOMPATIBLE MATERIALS**

Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen sulfide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**INFORMATION ON LIKELY ROUTES OF EXPOSURE**

INGESTION	Expected to be a low digestion hazard.
INHALATION	Prolonged inhalation may be harmful.
SKIN CONTACT	No adverse effects due to skin contact are expected.
EYE CONTACT	Harmful if contacted with eyes.

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS**

Not Available

**INFORMATION ON TOXICOLOGICAL EFFECTS**

ACUTE TOXICITY Not Available

<u>PRODUCT</u>	<u>SPECIES</u>	<u>TEST RESULTS</u>
Tire Rubber Polymer Modified Cationic Emulsion (CAS MIXTURE)		
Acute		
Inhalation		
LC50	Mouse	79142.8594 ppm, 1 Hours estimated
Oral		
LD50	Mouse	2390 g/kg estimated
	Rabbit	64285.7148 mg/kg estimated
	Rat	2140 g/kg estimated

<u>COMPONENTS</u>	<u>SPECIES</u>	<u>TEST RESULTS</u>
HYDROCHLORIC ACID (CAS 7647-01-0)		
Acute		
Dermal		
LD50	Mouse	1449 mg/kg
Inhalation		
LC50	Mouse	1108 ppm, 1 Hours
	Rat	3124 ppm, 1 Hours
Oral		
LD50	Rabbit	900 mg/kg
Other		
LD50	Mouse	1449 mg/kg

SKIN CORROSION/IRRITATION Prolonged skin contact may cause temporary irritation.

SERIOUS EYE DAMAGE/EYE IRRITATION Contact with eyes harmful.

**RESPIRATORY OR SKIN SENSITIZATION**

RESPIRATORY SENSITIZATION Not Available

SKIN SENSITIZATION May cause skin disorders with prolonged or repeated contact.

**GERM CELL MUTAGENICITY**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**CARCINOGENICITY**

Risk of cancer cannot be excluded with prolonged exposure. IARC: occupational exposures to straight-run bitumen and their emissions during road paving are "possibly carcinogenic to humans" (Group 2B)

**IARC MONOGRAPHS. OVERALL EVALUATION OF CARCINOGENICITY**

ASPHALT (CAS 8052-42-4)	2B Possibly carcinogenic to humans.
HYDROCHLORIC ACID (CAS 7647-01-0)	3 Not classifiable as to carcinogenicity to humans.

**US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)**

Not Listed

**REPRODUCTIVE TOXICITY**

Not Available

**SPECIFIC TARGET ORGAN TOXICITY**

- single exposure
- repeated exposure

Not Available  
Not Available

**ASPIRATION HAZARD**

Not Available

**CHRONIC EFFECTS**

Prolonged inhalation may be harmful.

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICITY** Not expected to be harmful to aquatic organisms.

COMPONENTS	SPECIES	TEST RESULTS
HYDROCHLORIC ACID (CAS 7647-01-0)		
<b>Aquatic</b>		
Fish LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	282 mg/l, 96 hours

**PERSISTENCE AND DEGRADABILITY** No data is available on the degradability of this product.

**BIOACCUMULATIVE POTENTIAL** No data available.

**MOBILITY IN SOIL** No data available.

**OTHER ADVERSE EFFECTS** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13: DISPOSAL INFORMATION**

**DISPOSAL INSTRUCTIONS** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. No components are identified as hazardous wastes. Disposal recommendations are based on uncontaminated material.

**LOCAL DISPOSAL REGULATIONS** Dispose in accordance with all applicable regulations.

**HAZARDOUS WASTE CODE** The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Not applicable.

**WASTE FROM RESIDUES /UNUSED PRODUCTS** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.



**CONTAMINATED PACKAGING** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT** Not regulated as dangerous goods.

**IATA** Not regulated as dangerous goods.

**IMDG** Not regulated as dangerous goods.

**TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE** Not Available

**SECTION 15: REGULATORY INFORMATION**

**US FEDERAL REGULATIONS** All components are on the U.S. EPA TSCA Inventory List.

**TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUBPT. D)** Not Regulated

**CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)**

ASPHALT (CAS 8052-42-4) Listed  
 HYDROCHLORIC ACID (CAS 7647-01-0) Listed

**US EPCRA SECTION 304 EXTREMELY HAZ. SUBS. & CERCLA HAZ. SUBS.:**

**SECTION 304 EHS REPORTABLE QUANTITY**  
 HYDROCHLORIC ACID (CAS 7647-01-0) 5000 LBS

**US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)** Not Listed

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)**

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

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCE**

CHEMICAL NAME	CAS NUMBER	REPORTABLE QUANTITY	THRESHOLD PLANNING QUANTITY
HYDROCHLORIC ACID	7647-01-0	5000	500 lbs

**SARA 311/312 HAZARDOUS CHEMICAL** No

**SARA 313 (TRI REPORTING)** Not Regulated





## OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List  
HYDROCHLORIC ACID (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)  
HYDROCHLORIC ACID (CAS 7647-01-0)

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))  
HYDROCHLORIC ACID (CAS 7647-01-0)

DEA ESSENTIAL CHEMICAL CODE NUMBER  
HYDROCHLORIC ACID (CAS 7647-01-0) 6545

DRUG ENFORCEMENT ADMINISTRATION (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))  
HYDROCHLORIC ACID (CAS 7647-01-0) 20 % WV

DEA EXEMPT CHEMICAL MIXTURES CODE NUMBER  
HYDROCHLORIC ACID (CAS 7647-01-0) 6545

## US STATE REGULATIONS

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

### US. Massachusetts RTK - Substance List

ASPHALT (CAS 8052-42-4)  
HYDROCHLORIC ACID (CAS 7647-01-0)

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

HYDROCHLORIC ACID (CAS 7647-01-0) 500 LBS

### US. Pennsylvania RTK - Hazardous Substances

ASPHALT (CAS 8052-42-4)  
HYDROCHLORIC ACID (CAS 7647-01-0)

### US. Rhode Island RTK

HYDROCHLORIC ACID (CAS 7647-01-0)

### US. California Proposition 65

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

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ASPHALT (CAS 8052-42-4) Listed: January 1, 1990

## INTERNATIONAL INVENTORIES

Country(s) or region Inventory name On inventory (yes/no)\*

Australia Australian Inventory of Chemical Substances (AICS) Yes

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

China Inventory of Existing Chemical Substances in China (IECSC) Yes

Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Yes

Europe European List of Notified Chemical Substances (ELINCS) No

Japan Inventory of Existing and New Chemical Substances (ENCS) No

Korea Existing Chemicals List (ECL) No

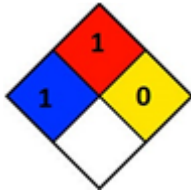
New Zealand New Zealand Inventory Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS) No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**SECTION 16: OTHER INFORMATION**



NFPA LABEL

ISSUE DATE 05-29-2015

VERSION # 01

DISCLAIMER The information and recommendations contained herein are, to the best of Wright's knowledge and belief, accurate and reliable as of the date issued. Wright does not warrant or guarantee their accuracy or reliability, and Wright shall not be liable for any loss or damage arising out of the use thereof.