

SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: PULSAR CRS

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 REVISION DATE: 12/12/2016 SUPERCEDES: 05/27/2015

MSDS Number: 000000025299

SYNONYMS: none

CHEMICAL FAMILY: Not Applicable/Mixture

DESCRIPTION / USE Swimming pool water treatment FORMULA: NOT APPLICABLE/MIXTURE

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance according to GHS.

GHS label elements

Not a dangerous substance according to GHS.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME
Cationic polymer

PROPRIETARY

CAS#

% RANGE 1 - 3

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SECTION 4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing

becomes difficult or if respiratory irritation develops.

Skin Contact: IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated

clothing immediately. Seek medical attention if irritation develops.

Eye Contact: IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical

attention if irritation develops.

Ingestion: IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if

symptoms develop. Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Combustible above 93 deg. C / 200 deg. F.

Flammable Properties

Flash Point: > 100 °C / 212 °F Autoignition Temperature: no data available

Fire / Explosion Hazards: Material may be ignited only if preheated to high temperatures, for

example in a fire.

Extinguishing Media: Not Applicable. - Choose extinguishing media suitable for

surrounding materials.

Fire Fighting Instructions: In case of fire, use normal fire-fighting equipment and the personal

protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus. Use water to cool

containers.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

Upper Flammable / Explosive Limit,

% in air:

no data available no data available

Lower Flammable / Explosive Limit,

% in air:

no data available no data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency

Situations:

Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Vapors may be suppressed by the use of water fog. Contain all

liquids for treatment or disposal.

Water Release: This material is soluble in water. Notify all downstream users of

possible contamination. Divert water flow around spill if possible and

safe to do so.

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Land Release: Create a dike or trench to contain materials. Absorb spill with inert

material (e.g., dry sand, clay, earth or commercial absorbent), then

place in a chemical waste container. After removal, flush contaminated area thoroughly with water. Contain all liquids for

treatment or disposal.

Additional Spill Information: Remove all sources of ignition. Stop source of spill as soon as

possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

SECTION 7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing.

Upon contact with skin or eyes, wash off with water. Avoid breathing

mist or vapor.

Storage: Store in a cool, dry and well ventilated place. Isolate from

incompatible materials. Do not store at temperatures below: 40 Deg.

F (4.4 Deg. C)

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Additional ventilation beyond that of general exhaust is not normally

required. No exposure limits exist for the constituents of this product.

Protective Equipment for Routine Use of Product

Respiratory Protection: Respiratory protection not normally needed.

Respirator Type: Not normally required.

Skin Protection: Wear impervious gloves to avoid skin contact.

Eye Protection: Use safety glasses with side shields.

Protective Clothing Type: Impervious

Components with workplace control parameters

no data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form liquid
Color: clear
Odor: mild

Molecular Weight: no data available Relative density no data available

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Arch Chemicals, Inc.

pH: 2-3

Boiling Point: 212 °F (100 °C)
Melting point/freezing no data available

point

Density: 0.995 - 1.010

Vapor Pressure: no data available
Vapor Density: no data available
Viscosity: 20 - 40 CPS
Fat Solubility: no data available

Solubility in Water: soluble

Partition coefficient n-

no data available

octanol/water:

Evaporation Rate: no data available Oxidizing: no data available Volatiles, % by vol.: no data available

VOC Content This product does not contain any chemicals listed under the U.S.

Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions

listed under the U.S. Clean Air Act Section 450.

HAP Content no data available

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions. Product will not undergo

hazardous polymerization.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated

temperatures., Avoid freezing.

Chemical Incompatibility: Strong oxidizing agents, Strong bases

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen, Hydrogen

chloride

Decomposition Temperature: no data available

SECTION 11. TOXICOLOGICAL INFORMATION

Product Animal Toxicity

<u>Oral LD50 value</u>: LD50 Believed to be > 5,000 mg/kg Rat <u>Dermal LD50 value</u>: LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50 no data available

value:

Skin Irritation: Not expected to be irritating to the skin.

Eye Irritation: Not expected to be irritating.

Skin Sensitization: Not expected to be a skin sensitizer.

Acute Toxicity: There are no known or reported target organ effects from acute exposure.

Subchronic / Chronic Not known or reported to cause subchronic or chronic toxicity.

Toxicity:

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Reproductive and Developmental Toxicity:

Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity:

Not known or reported to be mutagenic.

Carcinogenicity:

This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

SECTION 12. ECOLOGICAL INFORMATION

Overview: No ecological information available.

SECTION 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it DOES NOT meet the criteria of a

hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it

listed as a hazardous waste under Subpart D.

Disposal Methods: As a nonhazardous liquid waste, it should be disposed of in

accordance with local, state and federal regulations.

Potential US EPA Waste Codes: Not applicable

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

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Arch Chemicals, Inc.

IATA

Not dangerous goods

IMDG-CODE

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components	CAS-No.
Water	7732-18-5

New Jersey Right To Know

Components	CAS-No.
Water	7732-18-5
Cationic polymer	

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

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