

SAFETY DATA SHEET

Date: December 19, 2016

Section 1. Product & Company Identification

Product Name	ARCUS - PETRO-WASTE SOLIDIFIER (PWS)
CAS	66070-58-4
IUPAC	Synthetic Rubber – Ingredient Mixture - Trade Secret

Distribution Location
Arcus Absorbents Inc.
75 Deerhide Crescent, Unit 3
North York, Ontario Canada M9M 2Z2
Tel: 416-745-7947
Fax: 416-745-1174

Section 2. Hazards Identification



HMIS Hazard Class

Health: 0 Flammability: 1 Physical Hazards: 0

Human Health Hazards:

None

Environmental Hazards

None

Safety Hazards

Electrostatic charges may be generated during handling. Risk of self-ignition of bulk product above certain temperatures (Ref. to section 10). Specifically for milled grades and accumulated polymer dust: dust explosion could occur.

Special Notes

These components are synthetic rubber compounds, which are essentially non-toxic. Material is non-irritating. If polymer dusts are generated, they could scratch the eyes and cause minor irritation to the respiratory tract.

Section 3. Composition / Information on Ingredients

Substances are Non-Hazardous and Not Classified

Section 4. First Aid Measures

Description of First Aid Measure

- Eye Contact** Gently rinse the eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.
- Skin Contact** Not ordinarily expected in contact at normal temperature. If contact with hot material, cool the burn area by flushing with large amounts of water and get medical treatment.
- Inhalation** If gas or dust generated in process is inhaled, remove person to fresh air. If signs/symptoms continue, get medical attention.
- Ingestion** Rinse mouth with water and get medical advice. Do not induce vomiting.

Most important symptoms/effects, acute and delayed

None expected

Immediate medical attention required

Get medical attention as instructed above

Section 5. Fire-Fighting Measures

Extinguishing Media

Use water, fog, foam, dry chemical powder or CO₂.

Special Hazards

Not flammable but will burn.

Toxic gases (carbon monoxide) may form when burned without sufficient oxygen.

Protections of Firefighters

Firefighters should wear proper protective equipment (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Keep personnel removed from and upwind of fire. Cool fire exposed containers with water.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate respiratory protection and protective clothing as described in section 8.

Methods and Material for Containment and Cleaning Up

Normal procedures for clean-up. Use good housekeeping practices.

Shovel and sweep up or use industrial vacuum cleaner. Put into containers for reclaiming or disposal.

Section 7. Handling and Storage

Precautions for Safe Handling

Do not use near open flames. Avoid breathing vapors from heated materials. Adequate ventilation and/or engineering control must be employed in high temperature processing. If dust is created in processing, ground facilities to prevent static sparks and remove ignition sources.

Conditions for Safe Storage, including Any Incompatibilities

Store in a cool, dry, well ventilated location.

Section 8. Exposure Controls/Personal Protection

Exposure limits

None assigned

Engineering Controls

Adequate ventilation and/or engineering controls are required when product is heated in processing.

Individual Protection Measures

Respiratory Protection If engineering controls do not maintain their performance to a level that is adequate to protect worker health, a NIOSH-approved respirator should be worn. In accordance with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors and dusts.

Protective Clothing Safety glasses and protective clothing should be worn when product is heated in processing.

Section 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State, Form	Solid (Powder)
Physical State, Color	White
Odor	None
Odor Threshold	None
pH	Not available
Boiling Point (deg. F)	Not available
Melting Point/Freezing Point (deg. F)	Not available
Flash Point	Not available
Evaporation Rate	None
Flammability	Not available

Flammable Limits/Percent Volume in Air

Lower	Not available
Higher	Not available
Vapor Pressure (mmHg)	Not available
Vapor Density (Air=1)	Not available
Relative Density	Not available

Specific Gravity (H₂O=1)	0.91-0.92
Solubility	Insoluble in water Soluble in toluene, THF and chloroform
n-octanol/water partition coefficient	Not available
Spontaneous ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

Section 10. Stability and Reactivity

Reactivity

No data available

Chemical Stability

This product is considered a stable material under normal and anticipated storage and handling conditions.

Conditions to Avoid

Rainwater, the direct rays of the sun, open flame and etc.

Hazardous Decomposition Products

No Information available

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Oral LD₅₀	> 2,000mg/kg
Dermal LD₅₀	Not available
Inhalation LC₅₀	Not available

Routes Exposure

Inhalation	Not available
Ingestion	Not available
Dermal	Not available
Skin Corrosion/Irritation	Not available
Serious Eye Damage/Eye Irritation	Not available
Respiratory Sensitization	Not available
Skin Sensitization	Not available
Mutagenicity	Not available
Carcinogenicity	Not available
Reproductive Toxicity	Not available
Specific Target Organ Toxicity	Not available
Single Exposure	Not available
Repeated Exposure	Not available
Aspiration Toxicity	Not available

Section 12. Ecological Information

Ecotoxicity

No information available

Persistence and Degradability

No information available

Bioaccumulation

No information available

Mobility in Soil

No information available

Other Adverse Effects

No information available

Section 13. Disposal Considerations

Waste Treatment Methods

All recovered material should be disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

Section 14. Transport Information

UN Number

Non-regulated commodity

Proper Shipping Name

Not applicable

Transport Hazard Class(es)

Not hazardous by DOT

Section 15. Regulatory Information

INTERNATIONAL LEGISLATION

GLOBAL CHEMICAL INVENTORY STATUS – All of the substances are acceptable for use under:

AUSTRALIA – Inventory of Chemical Substances (AICS)
CANADA – (CEPA) Domestic Substances List (DSL)
CHINA – Inventory of Existing Chemical Substances (IECSC)
EU – European inventory of Existing Chemical Substances (EINECS)
JAPAN – Inventory of Existing and New Chemical Substances (IENCS)
KOREA – Existing Chemicals Inventory (KECI)
NEW ZEALAND – New Zealand Inventory of Chemicals (NZIOC)
PHILIPPINES – Inventory of Chemicals and Chemical Substances (PICCS)
USA – Toxic Substances Control Act (TSCA)

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This document is compliant with the Globally Harmonized System (GHS) for the classification, labeling and packaging (CLP) of substances and mixtures.

EU REACH Article 31 (Requirements for Safety Data Sheets) and Japan Ministry of Economy, Trade, and Industry (METI), Ministry of Health, Labor, and Welfare (MHLW) and Ministry of the Environment (MOE).

EU Directive 67/548/EEC, 1999/45/EC, 91/155/EEC, as amended by GHS (CLP) of substances and mixtures
Not classified

OSHA Hazard Communication Standard 29FR 1910.1200
Not classified.

AUSTRALIAN MSDS LEGISLATION: National Code of Practice for the Preparation of Material Safety Data Sheet, 2nd Edition [NOHSC: 2011 (2003)] under s.38(i) of the National Occupational Health and Safety Commission Act 1985 (cwlth).
Not regulated

CANADA Workplace Hazardous Materials Information System (WHMIS)
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required. This is NOT a WHMIS controlled product.

EU Regulation (EC) 1907/2006 REACH
Polymers are exempted from registration and evaluation.

EU Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS) in electrical and electronic equipment Restricted substances: Lead, Mercury, Cadmium, Hexavalent Chromium, PBB and PBDE.
Not regulated.

EU Directive 2002/96/EC Waste Electrical and Electronic Equipment (WEEE)
Not regulated.

EU Directive 91/689/EEC Hazardous Waste
Not regulated.

EU Directive 94/62/EC as amended by **2004/12/EC (Packaging and packaging waste)**
Not regulated. The product meets the requirement for the total amount of cadmium, chromium, lead and mercury to be less than 100 parts per million.

EU Directive 200/53/EC as amended in 2002 (**End of life vehicle**)
Not regulated.

EU Directive 2037/2000 Ozone Depleters (Class I or II) as defined in Montreal Protocol
Not regulated.

Article 19g(5) Federal Water Management Act (WHG) of 17 May 1999 (amended in July 2005)
Our products are classified into the Water Hazard Class WGK 1.

International Conventions
Chemical Weapons, Rotterdam PIC (Prior Informed Consent), Persistent Organic Pollutants (POP), Drug Precursors.
Not regulated.

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UNITED STATES: FEDERAL REGULATIONS

Food and Drug Administration (FDA) 21 CFR 170-199

Products on this SDS may conform with uses under food contact regulations as an article or a component of an article intended for food contact.

Toxic Substances Control Act (TSCA) Section 4, 5(a)(2), (f), 6, 7 or 12(b)

Not regulated

Clean Air Act Amendments Section 602 (Class I or II) Ozone Depleters

Not regulated.

Clean Air Act Section 111 Volatile Organic Compounds (VOC)

Not regulated.

Clean Air Act Section 112 Hazardous Air Pollutants (HAP)

Not regulated.

Clean Water Act Section 307 Priority pollutants

Not regulated.

UNITED STATES: STATE REGULATIONS

Right-to-Know Laws (Massachusetts, New Jersey, New York State, Pennsylvania)

Not regulated.

Coalition of Northeastern Governors (CONEG)

Not regulated. The product meets the requirement for the total amount of cadmium, chromium, lead and mercury to be less than 100 parts per million.

Section 16. Other Information

NFPA Hazard Rating	none – extreme	Health: 0	Reactivity: 0
	0 - 4	Fire: 1	

To the best of our knowledge the information contained herein is accurate. However, Arcus Absorbents Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any product is the sole responsibility of the user. All products may present unknown hazards and should be used with caution. Although certain hazards are described herein we cannot guarantee that these are the only hazards which exist.