

Product Name: DRI-Z-AIR™

Material Safety Data Sheet (MSDS) Issue Date 01/01/2018 MSDS#M48007/RP020410

DRI-Z-AIR<sup>™</sup> Calcium Chloride Pellets (Salt Pellets)

J&A Northwest, LLC encourages and expects you to read and understand the entire (MSDS), as there is important information throughout the document. We expect you to follow the precautions Identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name: DRI-Z-AIR™ Calcium Chloride Pellets

#### COMPANY IDENTIFICATION:

J&A Northwest, LLC RAINIER PRECISION P.O. BOX 77610 SEATTLE, WA 98177-0610 13500 LINDEN AVE NORTH SEATTLE, WA 98133 USA

Customer Information Number: 206-624-8258

# EMERGENCY TELEPHONE NUMBER 24-Hour Emergency Contact: CHEMTREC - U.S.A. and CANADA (800)-424-9300

2. HAZARDS IDENTIFICATION

**Emergency Overview** 

Color: White

Physical State: Pellets

Odor: Odorless

MAJOR HEALTH HAZARDS: Causes eye and skin irritation. Harmful if swallowed.

A Salt Product

#### Potential Health Effects

Inhalation: Dust may cause irritation to upper respiratory tract (nose and throat). Skin Contact: Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin irritation, even a burn. Not classified as corrosive to the skin according to DOT guidelines. May cause more severe response if skin is damp. May cause more severe response if skin is abraded (scratched or cut). May cause more severe response on covered skin (under clothing, gloves).

Eye Contact: For solid: May cause slight eye irritation, mechanical injury only. Dust formation should be avoided, as dust can cause severe eye irritation with corneal injury.

Ingestion: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation or ulceration.

See Section 11: TOXICOLOGICAL INFORMATION

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percentage	CAS Number
Calcium chloride	> 90.0 - < 92.0	10043-52-4
Potassium chloride	> 2.0 - < 3.0	7447-40-7
Water	> 4.0 - < 6.0	7732-18-5
Sodium chloride	> 1.0 - < 2.0	7647-14-5
Calcium bromide (CaBr2)	<1	7789-41-5

DOES NOT contain any VOC's as defined under 40 CFR 51.100(s)

#### 4. FIRST-AID MEASURES

INHALATION: Move person to fresh air; if effects occur, consult a physician.

SKIN CONTACT: Wash off immediately with plenty of cool water.

EYE CONTACT: Immediately flush eyes with plenty of cool water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. If effects occur, consult a physician, preferably an ophthalmologist. May cause injury due to mechanical action.

INGESTION: If swallowed, do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Never give anything by mouth to an unconscious or convulsive person.

Protection of First-Aiders: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to Physician: Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

# 5. FIRE FIGHTING MEASURES

as fine spray.

Fire Hazard: This material does not burn.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire. Fire Fighting: Keep unnecessary people away, isolate hazard area and deny entry. Fight fire for other material that is burning. Water should be applied in large quantities

Water NIOSH approved positive pressure self-contained breathing apparatus operated in pressure demand mode.

Wear protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Lower Flammability Level (air): Not applicable
Upper Flammability Level (air) Not applicable
Flash point: Not applicable
Autoignition Temperature: Not applicable

#### 6. ACCIDENTAL RELEASE MEASURES

Occupational Release:

Small Spills: Flush away with plenty of water

Large spills: Contain spilled material if possible. Collect in suitable and properly labeled containers. Flush residue with plenty of water. See Section 13, Disposal Considerations, for additional information.

Personal Precautions:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

#### **Environmental Precautions:**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

#### 7. HANDLING AND STORAGE

Storage Conditions: Store in a dry place. Protect from atmospheric moisture.

Handling Procedures: Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80°F, 27°C). Avoid contact with eyes, skin, and clothing. Do not swallow. Wash thoroughly after handling. Keep container tightly closed. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Regulatory Exposure limit(s):

Component	CAS Number	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PEL Ceiling
Particulates not otherwise regulated	Not Assigned	TWA 15 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp)		

OEL: Occupational Exposure Level; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Level; TWA: Time Weighted Average; STEL: Short Term Exposure Level

### Non-Regulatory Exposure Limit(s):

- The Non-Regulatory United States Occupational Safety and Health Association (OSHA) limits shown in the table are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).
- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

Component	CAS Number	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Particles Not Otherwise Specified (PNOS)	Not Assigned	TWA 10 mg/m <sup>3</sup> (inhalable) TWA 3 mg/m <sup>3</sup> (resp)					

Additional Advice: Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

ENGINEERING CONTROLS: Use local exhaust ventilation or other engineering controls to maintain airborne levels below the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines general ventilation should

be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

#### PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear safety glasses with side-shields. For dusty operations or when handling solutions of the material, wear chemical goggles.

Skin and Body Protection: Wear clean, body-covering clothing.

Hand protection: Use gloves chemically resistant to this material. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Neoprene. Polyvinyl chloride ("PVC" or "vinyl"), Nitrile/butadiene rubber ("nitrile" or "NBR").

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection: Respiratory protections should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: High efficiency particulate air (HEPA) N95. A respiratory protection program that meets 29 CFR 1910-134 must be followed whenever workplace conditions warrant use of a respirator.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Pellets
Color: White
Odor: Odorless

Freezing Point/Range: Not applicable to solids

Melting Point/Range: 772 °C (1,422 °F) Literature Approximately

Decomposition temperature: Not applicable

Vapor Pressure: Literature negligible at ambient

temperature

Vapor Density (air = 1): Not applicable

Specific Gravity (water = 1): Not applicable to solids

Flash point: Not applicable

Lower Flammability Level (air): NA
Upper Flammability Level (air): NA

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Auto ignition Temperature Not applicable

Hygroscopic: Yes

#### 10. STABILITY AND REACTIVITY

Reactivity/Stability: Stable Hygroscopic

Conditions to Avoid: None known. Avoid moisture.

Incompatible Materials to avoid: Heat is generated when mixed with water. Spattering and boiling can occur.

Avoid contact with: Sulfuric acid. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as: Zinc. Sodium. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromate.

Hazardous Decomposition Products: Does not decompose

Hazardous Polymerization will not occur.

#### 11. TOXICOLOGIAL INFORMATION

#### TOXICITY DATA:

LD 50 Oral: Typical for this family of materials.

LD50, Rat 918-1,668 mg/kg

LD 50 Dermal For the major component(s): LD 50, Rabbit >5,000 mg/kg

#### CHRONIC TOXICITY:

For the minor component(s): Potassium chloride - In animals, effects have been reported on the following organs after ingestion: Gastrointestinal tract, Heart, and Kidney. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. Medical experience with sodium chloride has shown a strong association between elevated blood pressure and prolonged dietary overuse. Related effects could occur in the kidneys.

CARCINOGENICITY: This product is not classified as a carcinogen by NTP, IARC or OSHA

MUTAGENIC DATA: The data presented are for the following material: Calcium chloride (CaC12)- In vitro genetic toxicity studies were negative. The data presented are for the following material: Potassium chloride - In vitro genetic toxicity studies were positive. However, the relevance of this to humans is unknown. For the minor component(s): Sodium chloride - In vitro genetic studies were predominantly negative.

DEVELOPMENTAL TOXICITY: For the major component(s): Did not cause birth defects or any other fetal effects in laboratory animals.

#### 12: ECOLOGICAL INFORMATION

#### **ECOTOXICITY DATA:**

Aquatic Toxicity:

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50>100 mg/L in the most sensitive species tested)

# Freshwater Fish Toxicity:

Calcium Chloride: LC50, bluegill (Lepomis macrochirus): 8,350 - 10,650 mg/l
Potassium Chloride: LC50, rainbow trout (Oncorhynchus mykiss), 96 h: 4,236 mg/l
Sodium Chloride: LC50, fathead minnow (Pimephales promelas): 10,610 mg/l

#### Invertebrate Toxicity:

Calcium Chloride: LC50, water flea Daphnia magna: 759 -3,005 mg/l

Potassium Chloride: EC50, water flea Daphnia magna, 24 h, immobilization: 590 mg/l

LC50, water flea Ceriodaphnia dubia, 96 h: 3,470 mg/l

Sodium Chloride: LC50, water flea Daphnia magna: 4,571 mg/l

# Microorganism Toxicity:

Sodium Chloride: IC50, OECD 209 Test; activated sludge, respiration inhibition: > 1,000

mg/l

#### FATE AND TRANSPORT:

BIODEGRADATION: Biodegradation is not applicable.

BIOCONCENTRATION: No bio concentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Koc between 0 and 50). Partitioning from water ton-octanol is not applicable.

#### 13. DISPOSAL CONSIDERATIONS

Reuse or recycle if possible. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Report spills if applicable.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

J&A Northwest, LLC HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Landfill and waste water treatment system.

#### 14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101: Not regulated

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: Not regulated.

#### 15. REGULATORY INFORMATION

#### **U.S. REGULATIONS**

#### **OSHA REGULATORY STATUS:**

This material is considered hazardous by the OSHA Hazard Communication Standard ( 29 CFR 1910.1200) (US)

CERCLA SECTIONS 102A/103 HAZARDOUS SUBSTANCES (40 CFR 203.4): Not regulated

EPCRA EXTREMELY HAZARDOUS SUBSTANCES (40 CFT 355.30): Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.21): Acute Health Hazard

# EPCRA SECTION 313 (40 CFR 372.65):

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

OSHA PROCESS SAFETY (PSM) (20 CFR 1910.119): Not regulated

#### NATIONAL INVENTORY STATUS

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

TSCA 12(b): This product is not subject to export notification

Canadian Chemical Inventory: All components are listed.

#### STATE REGULATIONS

California Proposition 65: This product contains no listed substances know to the State of California to cause cancer, birth defects or other reproductive harm, at levels which

would require a warning under the statute. WARNING. This product (when used in aqueous formulations with a chemical oxidizer such as ozone) may react to form calcium bromate.

# Component Calcium chloride

California Proposition 65 Cancer WARNING:	Not Listed
California Proposition 65 CRT List-Male reproductive toxin:	Not Listed
California Proposition 65 CRT List-Female reproductive toxin:	Not Listed
Massachusetts Right to Know Hazardous Substance List	Not Listed
New Jersey Right to Know Hazardous Substance List	Not Listed
New Jersey Special Health Hazards Substance List	Not Listed
New Jersey-Environmental Hazardous Substance List	Not Listed
Pennsylvania Right to Know Hazardous Substance List	Not Listed
Pennsylvania Right to Know Hazardous Substances	Not Listed
Pennsylvania Right to Know Environmental Hazard List	Not Listed
Rhode Island Right to Know Hazardous Substance List	Not Listed

# Component Potassium Chloride

California Proposition 65 Cancer WARNING: Not Listed California Proposition 65 CRT List-Male reproductive toxin: Not Listed California Proposition 65 CRT List-Female reproductive toxin: Not Listed Massachusetts Right to Know Hazardous Substance List Not Listed New Jersey Right to Know Hazardous Substance List Not Listed New Jersey Special Health Hazards Substance List Not Listed New Jersey-Environmental Hazardous Substance List Not Listed Pennsylvania Right to Know Hazardous Substance List Not Listed Pennsylvania Right to Know Hazardous Substances Not Listed Pennsylvania Right to Know Environmental Hazard List Not Listed Rhode Island Right to Know Hazardous Substance List **Not Listed** 

# Component Sodium Chloride

California Proposition 65 Cancer WARNING: Not Listed California Proposition 65 CRT List-Male reproductive toxin: Not Listed California Proposition 65 CRT List-Female reproductive toxin: Not Listed Massachusetts Right to Know Hazardous Substance List Not Listed New Jersey Right to Know Hazardous Substance List Not Listed New Jersey Special Health Hazards Substance List Not Listed New Jersey-Environmental Hazardous Substance List Not Listed Pennsylvania Right to Know Hazardous Substance List Not Listed Pennsylvania Right to Know Hazardous Substances Not Listed Pennsylvania Right to Know Environmental Hazard List Not Listed Rhode Island Right to Know Hazardous Substance List Not Listed

#### CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: D2B

**16. OTHER INFORMATION** 

Identification Number: M48007/RP020410 / Issue Date 01/01/18

Prepared by: J&A Northwest, LLC

This information is intended solely for the use of individuals trained in the MFPA and/or HMIS systems.

HMIS: (SCALE 0-4) (Rated using National Paint & coatings Association HIMIS: Rating

Instructions, 2nd Edition

Health: 2 Flammability: 0 Reactivity: 0

NFPA 704 - Hazard Identification Ratings (SCALE 0-4)

Health: 1 Flammability: 0 Reactivity: 0

J&A Northwest, LLC urges each customer or recipient of this (MSDS) to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (MSDS) and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (MSDS)'s, we are not and cannot be responsible for (MSDS)s obtained from any source other than ourselves. If you have obtained an (MSDS) from another source or if you are not sure that the (MSDS) you have is current, please contact us for the most current version.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

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END OF MSDS