Product Name: DRI-Z-AIR®
Material Safety Data Sheet (MSDS) Issue Date 01/01/2022 MSDS#M480022/RP020410

DRI-Z-AIR® 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
946 SW VETERANS WAY # 102 PMB 503
REDMOND, OR 97756

Customer Information Number: 206-624-8258 (T-F 7:00 AM TO 5:30 PM PST).

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

2. HAZARDS IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency Overview

Color: White
Physical State: Pellets
Odor: Odorless
Signal Word: WARNING

MAJOR HEALTH HAZARDS: CAUSES SERIOUS EYE IRRITATION. HARMFUL IF SWALLOWED.

PHYSICAL HAZARDS: Heat is generated when mixed with water or aqueous acid solutions

PRECAUTIONARY STATEMENTS: Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear eye protection.

ADDITIONAL HAZARD INFORMATION: Good hygiene practices include but are not limited to wearing chemical resistant gloves and eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

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

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HAZARD CLASSIFICATION:

GHS: CONTACT HAZARD – EYE:	Category 2A – Causes serious eye irritation
GHS: ACUTE TOXICITY – ORAL:	Category 4 – Harmful if swallowed

Unknown Acute Inhalation Toxicity:

There is no acute inhalation toxicity data available for this material.

GHS SYMBOL: Exclamation Mark

GHS SIGNAL WORD: WARNING

GHS HAZARD STATEMENTS:

GHS – Health Hazard Statement(s)

- Harmful if swallowed
- Causes serious eye irritation

GHS – Precautionary Statement(s) – Prevention

- Wash thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear eye protection

GHS – Precautionary Statement(s) – Response

- IF IN EYES: Rinse Cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

- If eye irritation persists: Get Medical advice / attention.

- IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.
- Rinse mouth if ingested.

GHS – Precautionary Statement(s) – Storage

- There are no Precautionary – Storage phrases assigned.

GHS – Precautionary Statement(s) – Disposal

- Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

Physical Hazards of Significance Not Mentioned in GHS Classification

- Calcium Chloride is hygroscopic and is capable of absorbing moisture from the air to become liquid. Chlorides in the presence of water and oxygen are associated with the accelerated corrosion of common metals, such as steel, copper and brass.
- Calcium Chloride has an exothermic heat of solution and solid products release a large amount of heat when dissolved in water.
- Calcium Chloride brines are electrically conductive. There is a risk of electric shock if energized electric equipment is handled with hands or fabric gloves that are wet with brine.

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

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 as fine spray.
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^3 (total) TWA 5 mg/m^3 (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^3 (inhalable) TWA 3 mg/m^3 (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
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

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.

END OF MSDS