BRANDT

SAFETY DATA SHEET

1. Identification

Product identifier Brandt Ca-Zn

Other means of identification

Product code 32029

Recommended use Agricultural/ Horticultural Use- Micronutrient Fertilizer- Refer to product label.

Recommended restrictions Refer to product label.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameBrandt Consolidated, Inc.Address2935 South Koke Mill Road

Springfield, IL 62711

United States

Telephone Corporate Office 1-217-547-5800

Website www.brandt.co msds@brandt.co

Contact person EH&S / Regulatory Department

Emergency phone number CHEMTREC (24 hours):

USA, Canada, Puerto Rico 1-800-424-9300 Virgin Islands 1-800-424-9300 International Maritime +1 (703) 527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Category 3

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Causes serious eye damage. May cause respiratory irritation. Toxic to

aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Use only outdoors or in a well-ventilated area. Avoid release to the

environment. Wear eye/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air

and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Rinse mouth.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Material name: Brandt Ca-Zn sps us

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

26.32% of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

3. Composition/information on ingredients

Mixtures

emical name Common name and synonyms		CAS number	%	
Calcium Nitrate		10124-37-5	20 - < 30*	
Zinc Nitrate		7779-88-6	5 - < 10*	
Acetic Acid		64-19-7	3 - < 5*	
Potassium Hydroxide (Caustic Potash)		1310-58-3	< 0.3*	
Other components below reportable levels			60 - < 70	

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Get medical attention immediately. Continue rinsing.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

> Get medical advice/attention if you feel unwell. Get medical attention if symptoms occur. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye

Most important symptoms/effects, acute and

delayed

irritation. Permanent eye damage including blindness could result. May cause respiratory irritation. Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

Indication of immediate medical attention and special treatment needed

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show

this safety data sheet to the doctor in attendance.

under observation. Symptoms may be delayed.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted.

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. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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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. Following product recovery, flush area with water.

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. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Do not taste or swallow. Avoid breathing mist or vapor. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

Value

8. Exposure controls/personal protection

Occupational exposure limits

Components

Type

	. 760		
Acetic Acid (CAS 64-19-7)	PEL	25 mg/m3	
		10 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	STEL	37 mg/m3	_
		15 ppm	
	TWA	25 mg/m3	
		10 ppm	
Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)	TWA	2 mg/m3	

Biological limit values

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

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles) and a face shield. Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with Respiratory protection

organic vapor cartridge.

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Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. 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.

9. Physical and chemical properties

Liquid. **Appearance** Liquid. **Physical state Form** Liquid.

Color Clear colorless or nearly colorless

Slightly. Sour Odor Not available. **Odor threshold**

2.1 pН

Salt-Out / Crystallization Temp Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Flash point Not available. **Evaporation rate** Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

0.00001 hPa estimated Vapor pressure

Vapor density Not available.

1.26 g/cm3 (typical) Relative density

Solubility(ies)

soluble Solubility (water)

Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Pounds per gallon 10.5 lb/gal (typical) VOC (Weight %) 4.22 % estimated

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

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11. Toxicological information

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye irritation. Permanent eye damage including blindness could result. May cause respiratory

irritation.

Information on toxicological effects

Acute toxicity In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and

central nervous system effects. Harmful if swallowed. May cause respiratory irritation.

Brandt Ca-Zn (CAS Mixture)	
Dermal LD50 Rabbit 25142.3145 mg Inhalation LC50 Rat 270.3985 mg/l, Oral LD50 Mouse 3239.011 mg/k Rabbit 28462.998 mg/l, Rat 1073.5226 mg/l Other LD50 Mouse 12452.5615 mg/l LD50 Mouse 12452.5615 mg/l Rabbit 28462.998 mg/l Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	
LD50 Rabbit 25142.3145 mg/lnhalation LC50 Rat 270.3985 mg/l, Oral LD50 Mouse 3239.011 mg/k Rabbit 28462.998 mg/l Rat 1073.5226 mg/l Other LD50 Mouse 12452.5615 mg/l Rabbit 28462.998 mg/l Other LD50 Mouse 12452.5615 mg/l Rabbit 28462.998 mg/l Rabbit 28462.998 mg/l	
Inhalation	
LC50 Rat 270.3985 mg/l, Oral LD50 Mouse 3239.011 mg/k Rabbit 28462.998 mg/ Rat 1073.5226 mg/ Other LD50 Mouse 12452.5615 mg/ Rabbit 28462.998 mg/ Rabbit 28462.998 mg/ Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	g/kg estimated
Oral LD50 Mouse 3239.011 mg/k Rabbit 28462.998 mg/k Rat 1073.5226 mg/k Other LD50 Mouse 12452.5615 mg/k Rabbit 28462.998 mg/k Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	
LD50 Mouse 3239.011 mg/k Rabbit 28462.998 mg/ Rat 1073.5226 mg/ Other LD50 Mouse 12452.5615 mg/ Rabbit 28462.998 mg/ Rabbit 28462.998 mg/ Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	4 Hours estimated
Rabbit 28462.998 mg/ Rat 1073.5226 mg/ Other LD50 Mouse 12452.5615 mg/ Rabbit 28462.998 mg/ Rabbit 28462.998 mg/ Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	
Rat	g estimated
Other LD50 Mouse 12452.5615 mg Rabbit 28462.998 mg/ Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	kg estimated
LD50 Mouse 12452.5615 mg Rabbit 28462.998 mg/ Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	kg estimated
Rabbit 28462.998 mg/ Components Species Test Results Acetic Acid (CAS 64-19-7) Acute	
Components Species Test Results Acetic Acid (CAS 64-19-7)	g/kg estimated
Acetic Acid (CAS 64-19-7) Acute	kg estimated
Acute	
Acute	
Dormal	
Dermai	
LD50 Rabbit 1060 mg/kg	
Inhalation	
LC50 Guinea pig 5000 mg/l, 1 H	ours
Mouse 5620 mg/l, 1 H	ours
Rat 11.4 mg/l, 4 Ho	ours
Oral	
LD50 Mouse 4960 mg/kg	
Rabbit 1200 mg/kg	
Rat 3.31 g/kg	
Other	
LD50 Mouse 525 mg/kg	
Rabbit 1200 mg/kg	
Calcium Nitrate (CAS 10124-37-5)	
Acute	
Oral	
LD50 Rat 302 mg/kg	
Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)	
Acute	
Oral	
LD50 Rat 273 mg/kg	

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Components Species Test Results

Zinc Nitrate (CAS 7779-88-6)

Acute

Oral

LD50 Mouse 241.3 mg/kg

Rat 1400 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

ıre)		
11 <i>E)</i>		
EC50	Daphnia	6680.8979 mg/l, 48 hours estimated
LC50	Fish	162.7256 mg/l, 96 hours estimated
	Species	Test Results
')		
EC50	Water flea (Daphnia magna)	65 mg/l, 48 hours
LC50	Bluegill (Lepomis macrochirus)	75 mg/l, 96 hours
124-37-5)		
LC50	Bluegill (Lepomis macrochirus)	2400 mg/l, 96 hours
iustic Potash) (C	CAS 1310-58-3)	
LC50	Western mosquitofish (Gambusia affinis)	80 mg/l, 96 hours
8-6)		
LC50	Minnow (Phoxinus phoxinus)	2.7 - 3.7 mg/l, 96 hours
	LC50 EC50 LC50 LC50 LC50 LC50 LC50 LC50 LC50 LC50 LC50	EC50 Fish Species (1) EC50 Water flea (Daphnia magna) LC50 Bluegill (Lepomis macrochirus) (124-37-5) LC50 Bluegill (Lepomis macrochirus) (124-37-5) LC50 Bluegill (Lepomis macrochirus) (1250 Western mosquitofish (Gambusia affinis) (126-6)

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Material name: Brandt Ca-Zn

^{*} Estimates for product may be based on additional component data not shown.

Partition coefficient n-octanol / water (log Kow)

-0.17 Acetic Acid

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.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

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).

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.

14. Transport information

Not DOT regulated in domestic (USA ground) transportation in package sizes less than 13,803 lbs (1,315 gallons); 6,261 kg (4,978 liters). The DOT transportation information below is for shipments with package sizes equal to or exceeding this value.

DOT

UN3082 **UN** number

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Zinc Nitrate RQ = 13803 lbs)

Transport hazard class(es)

9 Class Subsidiary risk Label(s) 9 Packing group Ш **Environmental hazards**

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

8, 146, 335, IB3, T4, TP1, TP29 Special provisions

Packaging exceptions 155 Packaging non bulk 203 Packaging bulk 241

DOT Shipping Notes: 40 CFR 172.504(f)(9) For Class 9, a CLASS 9 placard is not required for domestic (USA ground) transportation, however shipments with packaging exceeding the Reportable Quantity (RQ) or bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required. Since the Class 9 placard is not required (although it may be used) the hazardous material endorsement is also not required on a Commercial Drivers License.

IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Zinc Nitrate)

Transport hazard class(es)

Class 9 Subsidiary risk 9 Label(s) Ш Packing group Yes **Environmental hazards**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Forbidden.

Cargo aircraft only

Forbidden.

IMDG

UN3082 **UN number**

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Zinc Nitrate)

Material name: Brandt Ca-Zn

Transport hazard class(es)

9 Class Subsidiary risk Label(s) 9 Packing group Ш

Environmental hazards

Marine pollutant Yes

Not available. **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

General information Not DOT regulated in domestic (USA ground) transportation in package sizes less than 13,803 lbs

(1,315 gallons); 6,261 kg (4,978 liters). The DOT transportation information below is for shipments

with package sizes equal to or exceeding this value.

DOT; IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetic Acid (CAS 64-19-7) Listed. Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3) Listed. Zinc Nitrate (CAS 7779-88-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

Material name: Brandt Ca-Zn SDS US

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Calcium Nitrate	10124-37-5	20 - < 30	
Zinc Nitrate	7779-88-6	5 - < 10	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Acetic Acid (CAS 64-19-7)

Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)

Zinc Nitrate (CAS 7779-88-6)

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

Acetic Acid (CAS 64-19-7)

Calcium Nitrate (CAS 10124-37-5)

Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)

Zinc Nitrate (CAS 7779-88-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetic Acid (CAS 64-19-7)

Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)

Zinc Nitrate (CAS 7779-88-6)

US. Rhode Island RTK

Acetic Acid (CAS 64-19-7)

Calcium Nitrate (CAS 10124-37-5)

Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)

Zinc Nitrate (CAS 7779-88-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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)

16. Other information, including date of preparation or last revision

Issue date 02-04-2016

Version # 01

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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).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of the Product to determine suitability of the Product for user's particular use.

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