

Drying Agent Ultra Concentrate

Safety Data Sheet

Revision Date: 8/1/2019

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Trade Name Drying Agent Ultra Concentrate
Product Form Mixture
Product Code 11-17450

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of Product Concentrated Drying Agent

1.3 Details of the Supplier of the safety data sheet

Manufactured for:
BROADWAY EQUIPMENT CO
4701 HUMBOLDT AVE N
MINNEAPOLIS, MN 55430
(612) 529-3345

1.4 Emergency telephone number

Emergency Number (612) 529-3345

SECTION 2: Hazards Identification

2.1 Classification of the substance

Classification

<u>Hazard Code</u>	<u>Hazard Class</u>	<u>Hazard Category</u>
H226	Flammable liquids	3
H315	Skin corrosion/irritation	2
H318	Serious eye damage/eye irritation	1
H401	Hazardous to the aquatic environment, acute toxicity	2
H411	Hazardous to the aquatic environment, chronic toxicity	2

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFEETY PRACTICES

2.2 Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US): **Danger**

Hazard Statements (GHS-US):

H226: Flammable liquid and vapor
H315: Causes skin irritation
H318: Causes serious eye damage
H401: Toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US):

P210: Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P233: Keep container tightly closed
P240: Ground/bond container and receiving equipment
P241: Use explosion-proof electrical/ventilating/lighting/.../equipment
P242: Use only non-sparking tools
P243: Take precautionary measures against static charge

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P264: Wash thoroughly after handling
P273: Avoid release into the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection
P310: Immediately call a POISON CENTER or doctor/physician
P321: Specific treatment (see section 4)
P362: Take off contaminated clothing and wash before reuse
P391: Collect spillage
P302+P352: IF ON SKIN: Wash with soap and water
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P332+P313: If skin irritation occurs: Get medical advice/attention
P370+P378: In case of fire: See section 5 for extinction
P403+P235: Store in a well ventilated place. Keep cool
P501: Dispose of contents/container in accordance with local, state and federal authorities.

2.3 Other Hazards

No additional information available

2.4 Unknown acute toxicity (GHS-US)

No Data Available

SECTION 3: Composition/Information on Ingredients

3.1 Substance

Not applicable

3.2 Mixture

Ingredient Name	CAS #	Composition
Water	7732-18-5	50-75%
Distillates, petroleum, hydrotreated middle	64742-46-7	15-25%
Quaternary Ammonium Compounds, DiCocoalkyl, Dimethyl, Chlorides	61789-77-3	5-10%
2-butoxyethanol	111-76-2	5-10%
Amines, C14-18; C16-18-Unsat., Alkyl, Ethoxylated	68155-39-5	5-10%
2-Propanol	67-63-0	1-5%

SECTION 4: First Aid Measures

4.1 Description of first aid measures

First-Aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-Aid after inhalation	IF INHALED. Use artificial respiration and oxygen if needed. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If irritation persists, seek medical attention.
First-Aid after skin contact	IF ON SKIN. If skin irritation occurs. Get medical advice/attention. Wash with soap and water. IF ON SKIN (or hair). Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately rinse with plenty of water (for at least 15 minutes).
First-Aid after eye contact	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 or doctor/physician. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, seek medical attention.
First-Aid after ingestion	IF SWALLOWED. Rinse mouth. Do NOT induce vomiting. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms/injuries	Causes skin irritation. Causes serious eye damage.
Symptoms/injuries after inhalation	May cause headache, nausea and irritation of respiratory tract.
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes serious eye damage.
Symptoms/injuries after ingestion	May cause gastrointestinal irritation, nausea, vomiting, and diarrhea if swallowed.
Chronic symptoms	No data available.

4.3 Indication of immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media Alcohol resistant foam. Carbon dioxide. Dry powder. Do Not Use Water Spray.

5.2 Special hazards arising from the substance or mixture

Fire Hazard	Flash Point 130 F (Closed Cup). However, this product did not sustain combustibility per ASTM 4206, Standard Test Method for Sustained Burning of Liquid Mixtures Using the Small Scale Open-Cup Apparatus.
Explosion Hazard	The product is not explosive.
Reactivity	The product is not reactive under normal conditions.

5.3 Special hazards arising from the substance or mixture

Firefighting instructions	Do not dispose of fire-fighting water in the environment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures Ventilate area. Avoid breathing vapors, mist or gas. Spill should be handled by trained clean-up crews. Use grounding/bonding and non-sparking tools. Eliminate all ignition sources. For personal protection see Section 8.

6.1.1 For non-emergency personnel

Protective equipment Wear Protective equipment as described in Section 8.
Emergency procedures Contain the spill. Do not let product enter drains. Remove unnecessary personnel.

6.1.2 For emergency responders

Protective equipment Wear Protective equipment as described in Section 8.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

For containment Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up Use grounding/bonding and non-sparking tools. Eliminate all ignition sources. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4 reference to other sections

No additional information available.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. Store in cool well ventilated area. Ground and bond all containers when pouring or transferring liquid. Keep container closed when not in use. Use only with adequate ventilation. Wear proper safety equipment including chemically resistant gloves and

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safety glasses or goggles. Wash thoroughly after handling. Do not breathe mist or vapor. Do not get in eyes. Avoid prolonged or repeated contact with skin. Do not swallow.

7.2 Conditions for safe storage, including and incompatibilities

Storage conditions Store in approved containers only. Keep container in a cool, well ventilated place away from heat sources and incompatible materials (See Section 10.5). Keep container tightly closed.

7.3 Specific end uses

No additional information

SECTION 8: Exposure Controls/Personal Protection

8.1 control parameters

No OSHA and ACGIH PEL's or TLV's for the listed ingredients of this product unless listed stated below:

2-Butoxyethanol, CAS # 111-76-2			
OSHA PEL (TWA)	OSHA PEL (STEL)	OSHA PEL (Ceiling)	ACGIH-TLV
50 ppm	Not Established	Not Established	20 ppm (TWA)

Isopropyl alcohol, CAS # 67-63-0			
OSHA PEL (TWA)	OSHA PEL (STEL)	OSHA PEL (Ceiling)	ACGIH-TLV
400 ppm	Not Established	Not Established	200 ppm (TWA), 400 ppm (STEL)

8.2 Exposure Controls

Personal protective equipment Chemical resistant gloves. Protective clothing. Safety glasses or goggles
Hand protection Chemical resistant gloves.
Eye protection Safety glasses or goggles.
Skin and body protection Wear long sleeves. Wear suitable protective clothing.
Respiratory protection Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Tinted Liquid
Color Blue
Odor None
Odor threshold No data available
pH 8.5
Relative Evaporation rate (butyl No data Available
Melting point No data Available
Freezing point No data Available
Boiling point No data Available
Flash point 130 °F (Closed Cup)
Self ignition point No data Available
Decomposition temperature No data Available
Flammability (solid, gas) No data Available
Vapor pressure No data Available
Relative vapor density at 20° C No data Available
Relative Density 0.937 g/ml
Solubility Water soluble
Log Pow No data Available
Log Kow No data Available
Viscosity: Kinematic No data Available
Viscosity: dynamic No data Available

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Explosive properties	No data Available
Oxidizing properties	No data Available
Explosive Limits	No data Available

9.2 Exposure Controls

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

None Known

10.4 Conditions to avoid

Sparks. Heat. Open flame. Sun Light

10.5 Incompatible Materials

Avoid contact with: bases, amines, ammonia, strong acids, acid chlorides, and strong oxidizers

10.6 Hazardous decomposition products

Thermal decomposition can result in: aldehydes, hydrocarbons, and carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral LD50: > 2000 mg/kg (rat) Calculated

Dermal LD50: > 2000 mg/kg (rabbit) Calculated

Inhalation LD50: > 5 mg/l (Dust/mist (Rat)) Calculated

Skin Corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	Causes serious eye damage
Respiratory or skin sensitization	Not Classified
Germ cell mutagenicity	Not Classified
Carcinogenicity	Not Classified
Reproductive toxicity	Not Classified
Specific organ toxicity single exposure	Not Classified
Specific organ toxicity repeated exposure	Not Classified
Aspiration hazard	Not Classified
Symptoms/injuries after inhalation	See Section 4
Symptoms/injuries after skin contact	See Section 4
Symptoms/injuries after eye contact	See Section 4
Symptoms/injuries after ingestion	See Section 4
Chronic symptoms	Not Classified

SECTION 12: Ecological information

12.1 Toxicity

No Data

12.2 Persistence and degradability

No Data

12.3 Bioaccumulative potential

No Data

12.4 Mobility in soil

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No Data

12.5 Other adverse effect

No Data

SECTION 13: Disposal Considerations

13.1 Waste Treatment methods

Waste treatment methods Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without NPDES permit.

Waste disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released to the environment.

SECTION 14: Transportation information

14.1 UN number, proper shipping name, class and packaging groups.

Domestic Ground Non-Bulk Shipments

NOT DOT REGULATED

14.2 Additional information

Not available

SECTION 15: Regulatory Information

15.1 Federal regulations

TSCA Inventory: The components of this product are listed.

SARA 311/312 Hazard category (40 CFR 370.2): Acute and chronic health hazard, fire hazard.

SARA 313 Toxic Release Reporting (40CFR Part 372): 2-Propanol, CAS# 67-63-0, 1-5% by wt./ 2-butoxyethanol, CAS# 111-76-2, 5-10% by wt.

SARA 302 EHS Emergency Planning (40CFR Part 355): No listed substance known over 1.0% or over 0.1% that are carcinogenic.

SARA 304 EHS Emergency Planning (40CFR Part 355): No listed substance known over 1.0% or over 0.1% that are carcinogenic.

CERCLA Section 102-103 HS Released Reporting (40 CFR part 302-102a): 2-butoxyethanol, CAS# 111-76-2, RQ no listed value, see 50 Federal Register 13456 for RQ lbs.

15.2.1 International regulations

No Data

15.2.2 National regulations

No Data

15.3 State Regulations

California Prop. 65

Approximate quantities by weight

- Ethylene glycol (ingested)/ developmental/ CAS# 107-21-1/ Trace
- Methyl chloride/ developmental/ CAS# 74-87-3/ Trace
- Methyl chloride/ male/ CAS# 74-87-3/ Trace

New Jersey Right to Know

Approximate quantities by weight

- 2-BUTOXY ETHANOL/ CAS# 111-76-2/ 5-10% by wt.
- ISOPROPYL ALCOHOL/ CAS# 67-63-0/ 1-5% by wt.
- ETHYLENE GLYCOL/ CAS# 107-21-1/ Trace
- METHYL CHLORIDE/ CAS# 74-87-3/ Trace

SECTION 16: Other Information

Other information None

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NFPA

NFPA Health Hazard 2

NFPA Fire Hazard 2

NFPA Reactivity 0

HMIS

Health 2

Flammability 2

Physical 0

Personal Protection X

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