

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Trade name : FOLI K X-TREME®

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizers

#### 1.3. Supplier

##### Distributor

Carolina Eastern, INC.  
 347 McAllister Mill Road  
 Scranton, SC 29591  
 1-843-389-2761

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	
Americas	CHEMTREC		+1-800-262-8200	(24/7)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Oxidising Solids, Category 3 H272 May intensify fire; oxidiser.  
 Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.  
 Reproductive toxicity, Category 2 H361 Suspected of damaging fertility or the unborn child (oral).

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H272 - May intensify fire; oxidiser.  
 H318 - Causes serious eye damage.  
 H361 - Suspected of damaging fertility or the unborn child (oral).

Precautionary statements (GHS US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220 - Keep/Store away from clothing, combustible materials.  
 P280 - Wear eye protection, face protection.  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a doctor, a POISON CENTER

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# FOLI K X-TREME®

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%)	(CAS-No.) 7778-80-5	1 - 10	Eye Dam. 1, H318
Disodium tetraborate pentahydrate, borax pentahydrate	(CAS-No.) 12179-04-3	0.1 - 1	Eye Irrit. 2A, H319 Repr. 2, H361

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Prompt treatment is essential to minimize damage.
First-aid measures after inhalation	: Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.
First-aid measures after skin contact	: Wash with water and soap as a precaution. If case of redness or irritation, call a doctor.
First-aid measures after eye contact	: Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms. If possible show him this sheet. Failing this, show him the packaging or label.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. Seek medical attention if ill effect develops.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : (see section(s) : 2.1/2.3).

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Use extinguishing media appropriate for surrounding fire.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : May intensify fire; oxidiser.

#### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire	: Ensure adequate ventilation, especially in confined areas. Keep away from combustible material.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing. EN 469. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No flames, no sparks. Eliminate all sources of ignition. Evacuate area.

##### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Do not get in eyes, on skin, or on clothing. Do not breathe dust. Evacuate unnecessary personnel. Mark the danger area. Mechanically ventilate the spillage area. Keep upwind. Only qualified personnel equipped with suitable protective equipment may intervene.

##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment.
Emergency procedures	: Ventilate area. Stop leak if safe to do so. Dike and contain spill.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

# FOLI K X-TREME®

## Safety Data Sheet

- Methods for cleaning up : Clean up immediately by sweeping or vacuum. Minimise generation of dust. Collect up the product and place it in a spare container suitably labelled.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid shock and friction. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : The floor of the depot should be impermeable and designed to form a water-tight basin. Comply with applicable regulations.
- Storage conditions : Store in dry, cool, well-ventilated area. Keep out of reach of children.
- Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Oxidizing agent. Strong acids.
- Incompatible materials : combustible materials.
- Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
- Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
- Storage area : Store away from heat. Store in a well-ventilated place.
- Special rules on packaging : Keep only in original container. Store in a closed container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)		
Not applicable		
Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)		
ACGIH	Local name	Sodium tetraborate, pentahydrate
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (I - Inhalable particulate matter)
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (I - Inhalable particulate matter)
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2019

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.
- Environmental exposure controls : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Protective clothing.

#### Materials for protective clothing:

Wear suitable protective clothing

#### Hand protection:

# FOLI K X-TREME®

## Safety Data Sheet

Type	Material	Permeation	Thickness (mm)	Penetration
protective gloves Disposable gloves, Reusable gloves	Butyl rubber, Polyvinylchloride (PVC), Latex			

### Eye protection:

Type	Use	Characteristics
Safety goggles	Dust, Fine dust	With side shields

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Dust formation: dust mask

Device	Filter type	Condition
Dust mask	Type P2	Dust protection

### Personal protective equipment symbol(s):



### Other information:

See Heading 7 : 7.1. Precautions for safe handling.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: White
Odour	: characteristic
Odour threshold	: No data available
pH	: No data available
pH solution	: 3.6 - 5.6 water, 10%
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.2 kg/l
Solubility	: Water: Soluble
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Not determined.

# FOLI K X-TREME®

## Safety Data Sheet

Oxidising properties : May intensify fire; oxidiser.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Extremely high or low temperatures. Moisture. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Reducing agents. Sawdust. Organic materials. Alkalis. Oxidation agents. Strong acids. Combustible materials. Oxidizing materials. Flammable materials.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: See Heading 5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

#### Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)

LD50 oral rat	> 2000 mg/kg (OECD 425 method) (Results obtained on a similar product)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method) Practical experience

#### Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)

LD50 oral rat	3200 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2 mg/l

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child (oral).

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

#### Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)

NOAEL (oral, rat, 90 days)	>= 1500 mg/kg bodyweight/day 28 days, (OECD 422 method), Practical experience
NOAEL (subacute, oral, animal/male, 28 days)	256 mg/kg bodyweight 52 weeks, (OECD 453 method), (Results obtained on a similar product)
NOAEL (subacute, oral, animal/female, 28 days)	284 mg/kg bodyweight 52 weeks, (OECD 453 method), (Results obtained on a similar product)

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects : (see section(s) : 2.1/2.3).

# FOLI K X-TREME®

## Safety Data Sheet

### SECTION 12: Ecological information

#### 12.1. Toxicity

- Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
- Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

<b>Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)</b>	
LC50 fish 1	680 mg/l Pimephales promelas, 96 Hours, EPA 600/4-90/027, Freshwater, Practical experience
EC50 Daphnia 1	720 mg/l Daphnia magna, 48 Hours, EPA 600/4-90/027, Freshwater, Practical experience
EC50 other aquatic organisms 1	> 100 mg/l ACTIVATED SLUDGE
ErC50 (algae)	2700 mg/l Chlorella vulgaris, 18 days, (Results obtained on a similar product)
NOEC (chronic)	100 mg/l ACTIVATED SLUDGE

<b>Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)</b>	
LC50 fish 1	370 mg/l mg ANHYDROUS FORM, 96h, Pimephales promelas
EC50 Daphnia 1	619 mg/l mg ANHYDROUS FORM, 48h, Daphnia magna
ErC50 (algae)	229 mg/l mg boric acid, 72h, Pseudokirchneriella subcapitata

#### 12.2. Persistence and degradability

<b>FOLI K X-TREME®</b>	
Persistence and degradability	Product is biodegradable.

<b>Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)</b>	
Persistence and degradability	Not established. Not relevant.

<b>Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)</b>	
Persistence and degradability	Not established. Not relevant.

#### 12.3. Bioaccumulative potential

<b>FOLI K X-TREME®</b>	
Bioaccumulative potential	Not established.

<b>Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)</b>	
Bioaccumulative potential	Not potentially bioaccumulable.

#### 12.4. Mobility in soil

<b>Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)</b>	
Ecology - soil	Small adsorption. Very mobile.

<b>Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)</b>	
Ecology - soil	Soluble in water. Small adsorption.

#### 12.5. Other adverse effects

- Other adverse effects : May cause eutrophication at very low concentration.

- Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden.
- Additional information : Do not re-use empty containers.

# FOLI K X-TREME®

## Safety Data Sheet

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description	: UN1486 Potassium nitrate, 5.1, III
UN-No.(DOT)	: UN1486
Proper Shipping Name (DOT)	: Potassium nitrate
Class (DOT)	: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 5.1 - Oxidiser



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Special Provisions (49 CFR 172.102)	: A1 - Single packagings are not permitted on passenger aircraft. A29 - Combination packagings consisting of outer expanded plastic boxes with inner plastic bags are not authorized for transportation by aircraft. B120 - The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of part 178 of this subchapter is permitted. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. W1 - This substance in a non friable prill or granule form is not subject to the requirements of this subchapter when tested in accordance with the UN Manual of Test and Criteria (IBR, see §171.7 of this subchapter) and is found to not meet the definition or criteria for inclusion in Division 5.1.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 152
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 140
Other information	: No supplementary information available.

#### Transportation of Dangerous Goods

##### Transport by sea

Transport document description (IMDG)	: UN 1486 POTASSIUM NITRATE, 5.1, III
UN-No. (IMDG)	: 1486
Proper Shipping Name (IMDG)	: POTASSIUM NITRATE
Class (IMDG)	: 5.1 - Oxidizing substances

# FOLI K X-TREME®

## Safety Data Sheet

Packing group (IMDG) : III - substances presenting low danger  
Limited quantities (IMDG) : 5 kg

### Air transport

Transport document description (IATA) : UN 1486 Potassium nitrate, 5.1, III  
UN-No. (IATA) : 1486  
Proper Shipping Name (IATA) : Potassium nitrate  
Class (IATA) : 5.1 - Oxidizing Substances  
Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### Dipotassium sulphate (Contains potassium hydrogensulphate 10%-15%) (7778-80-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

#### FOLI K X-TREME®

Ensure all national/local regulations are observed

#### Disodium tetraborate pentahydrate, borax pentahydrate (12179-04-3)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

### 15.3. US State regulations

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 10/16/2023

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.



# FOLI K X-TREME®

## Safety Data Sheet

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Full text of H-statements:

H272	May intensify fire; oxidiser.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*