

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), Printing date: 13.11.2014 and US GHS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Revision: 27.06.2018

1.1 Product Identifier Potassium Fluoroborate, KBF₄
GHS Product Identifier Potassium Fluoroborate, KBF₄

Chemical Name Potassium Fluoroborate, KBF₄

Trade Name See Product Identifier CAS No. Mixture

EINECS No. Mixture
REACH Registration No. Not available

1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Application of the substance / the mixture Product Component

1.3 Details Of The Supplier Of The Safety Data Sheet

Company Identification Washington Mills Electro Minerals Corp.

Address 1801 Buffalo Avenue Niagara Falls, NY 14302

Telephone (716) 278-6600

E-Mail (Competent Person) info@washingtonmills.com

1.4 Emergency Telephone Number – ChemTel

(800)255-3924 (USA/Canada), 813-248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification Of The Substance Or Mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)

The product is not classified as hazardous according to OSHA GHS regulations within the United States. The substance is not classified as hazardous according to the CLP regulation.

2.2 Label Elements

2.2.1 Label Elements According to Regulation (EC) No. 1272/2008 (CLP)

This product does not have a classification according to the CLP regulation.

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

Hazard-determining components of labelling: None

Hazard Not Regulated

Statement(s)

Additional None information Hazard description:

WHMIS- Not hazardous under WHMIS.

symbols:

NFPA ratings (scale 0 - 4)

0 0 HEALTH 0

Health = 0 Fire = 0 Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH 0
FIRE 0
REACTIVITY 0

Health = 0 Fire = 0 Reactivity = 0

HMIS Long Term Health Hazard

Substance is not listed.

Substances 2.3 Other Hazards

Results of PBT PBT: Not applicable. vPvB: Not applicable.

assessment

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances **CAS No. Description**

14075-53-7 potassium tetrafluoroborate

Identification number(s) EC number: 237-928-2

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SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General Information: No special measures required

After Inhalation: Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Brush off loose particles from skin. Wash with soap and water. If skin irritation is

experienced, consult a doctor.

After Eye Contact: Remove contact lenses if worn. Rinse opened eye for several minutes under

running water. If symptoms persist, consult a doctor.

Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for After Swallowing:

medical help immediately.

4.2 **Most Important**

Symptoms And

Effects, Both Acute

And Delayed

Slight irritant effect on eyes.

Hazards

4.3

Indication Of The Immediate Medical

Attention And Special

Treatment Needed

No further relevant information available.

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 **Extinguishing Media**

Suitable Extinguishing

Media

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable Extinguishing Media

None.

5.2

5.3

6.4

Special Hazards Arising From The Substance Or

No further relevant information available.

Mixture

Advice for Fire-Fighters

Wear self-contained respiratory protective device. Wear fully protective suit.

Additional Information

No further relevant information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6 1 Personal Precautions, Avoid formation of dust. For large spills, use respiratory protective device **Protective Equipment And** against the effects of fumes/dust/aerosol. For large spills, wear protective **Emergency Procedures** clothing. Ensure adequate ventilation **Environmental Precautions** Do not allow to enter sewers/ surface or ground water. 6.2

6.3 **Methods And Material For Containment And Cleaning** Pick up mechanically. Send for recovery or disposal in suitable

receptacles. Ensure adequate ventilation.

Reference To Other Sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.



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SECTION 7: HANDLING AND STORAGE

Precautions For Safe Use only in well ventilated areas. Prevent formation of dust. Any unavoidable deposit 7.1 Handling

of dust must be regularly removed. Do not dry clean dust covered objects and floors.

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Wash thoroughly with plenty of water. **Information About** No special measures required.

Fire - and explosion

protection

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7.2 Conditions For Safe Storage, Including Any Incompatibilities: Store in a cool location.

Requirements to be Met by Storerooms

Protect from humidity and water.

and Receptacles:

Information About Storage in One

Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.

Common Storage

Facility:

Further information

Store in cool, dry conditions in well sealed receptacles.

about storage conditions:

7.3 Specific End Use(s)

No further relevant information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7. **Control Parameters** Ingredients with limit values that require monitoring at the workplace: Long-term value: 2,5 mg/m³ PEL (USA) as F Long-term value: 2,5 mg/m³ REL (USA) as F Long-term value: 2,5 mg/m³ potassium 14075-53-7 TLV (USA) as F, BEI tetrafluoroborate Long-term value: 2,5 mg/m³ EL (Canada) as F Long-term value: 2,5 mg/m3 IOELV (EU) as F **DNELs** No further relevant information available. PNECs No further relevant information available. Ingredients with biological limit values: 2 mg/L Medium: urine Time: prior to shift Parameter: Fluoride (background, nonspecific) potassium 14075-53-7 BEI (USA) tetrafluoroborate 3 ma/L Medium: urine Time: end of shift Parameter: Fluoride (background, nonspecific) Additional information: The lists valid during the making were used as basis.

8.2	Exposure Controls	
8.2.2 Personal Protective Equipment:		tive Equipment:
General The usual precautionary measures are to be adhered to when		The usual precautionary measures are to be adhered to when handling
	protective and chemicals. Keep away from foodstuffs, beverages and feed. Wash	
	hygienic before breaks and at the end of work. Do not inhale dust / smoke / m	
	measures: Avoid contact with the eyes and skin.	

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	Respiratory	Not required under normal conditions of use. Use suitable respiratory
	Protection	protective device when high concentrations are present. For spills,
		respiratory protection may be advisable.
	F D	
	Eye Protection	Wear safety glasses.
am	Protection of	Wear protective gloves.
	Hands	The state of the s
	Body Protection	Not required under normal conditions of use. Protection may be required for
	Body Frotection	spills.
	Limitation and	No further relevant information available.
	supervision of	
	exposure into	
	the environment	
	Risk	No special requirements.
	Management	
	Measures	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information On Basic	Physical And Chemica	l Properties	
	Appearance	Powder	Color	White
	Odor	Odourless	Odor Threshold (ppm)	Not available
	Melting Point (°C) / Freezing Point (°C)	Not available	Boiling Point/Boiling Range (°C)	Not available
	Flash Point (°C)	No Data	Explosive Limit Ranges	Not available
	Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	Not available
	Explosive Properties	None	Oxidizing Properties	Not available
	Flammability (Solid, Gas)	Not available	Ph (Value)	Not available
	Evaporation Rate	N/A	Vapor Pressure (mm Hg)	Not available
	Vapor Density (Air=1)	N/A	Density (g/ml)	2,5 g/cm ³
	Solubility (Water)	Not miscible or difficult to mix.	Solubility (Other)	Not available
	Partition Coefficient (N- Octanol/Water)	Not available	Viscosity (mPa.s)	Not available
9.2	Other Information	Volatile Organic Chemical (VOC) Content – Not Available.		

SECTION 10: STABILITY AND REACTIVITY

10.1	Chemical Stability	
	Thermal Decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
10.3	Possibility of Hazardous Reactions	Reacts with strong acids and alkali. Reacts with strong oxidising agents. Reacts with humid air.
10.4	Conditions To Avoid	Moisture.
10.5	Incompatible Materials	No further relevant information available.

10.6 **Hazardous Decomposition Product(s)** Hydrogen fluoride

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on Toxicological Effects
	Acute toxicity:



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Primary Irritant Effect:

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes. Sensitisation: No sensitizing effects known.

Additional toxicological When used and handled according to specifications, the product does not have any harmful effects to our experience

and the information provided to us. The substance is not subject to classification according to the latest version of the

EU lists.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

12.2 Persistence and Degradability
12.3 Bioaccumulative Potential
12.4 Mobility in Soil

No further relevant information available.
No further relevant information available.
No further relevant information available.

Additional ecological information:

General notes: Due to the consistence and the low water solubility of the product

a bioavailability is not probable.

12.5 Results of PBT and vPvB PBT: Not applicable.
Assessment vPvB: Not applicable.

12.6 Other Adverse Effects No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Recommendation Contact waste processors for recycling information. The user of this material

has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous

wastes. Residual materials should be treated as hazardous.

Uncleaned Packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Land Transport (ADR/RID) (c)(d) Land Transport (Within USA) (b)(d)

UN Number None UN Number None

Not classified as Not classified as Not classified as dangerous for

Proper Shipping Name dangerous for transport.

Proper Shipping Name transport.

Transport Hazard Class(es) None Transport Hazard Class(es) None Packing Group Packing Group None None Hazard Label(s) Hazard Label(s) None None **Environmental Hazards** Environmental Hazards None None Special Precautions For User None Special Precautions For User None

Sea Transport (IMDG) (c) Air Transport (ICAO/IATA) (c) (d)

UN Number None UN Number None

Proper Shipping Name

Not classified as dangerous for transport

Proper Shipping Name

Not classified as dangerous for transport

Not classified as dangerous for transport

dangerous for transport.

Transport Hazard Class(es)NoneTransport Hazard Class(es)NonePacking GroupNonePacking GroupNoneMarine PollutantNoneMarine PollutantNoneSpecial Precautions For UserNoneSpecial Precautions For UserNone

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(b)- ORM-D may be applicable within the USA for package sizes less than 30kg.

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(c)- Consult with transport provider.

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(d)- Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

Safety, Health And Environmental Regulation	s/Legislation Specific For The Substance O	r Mixture		
USA				
SARA				
Section 355 (extremely hazardous substances)	Substance is not listed.			
SARA 313 (Specific toxic chemical listings)	Substance is not listed.			
TSCA (Toxic Substance Control Act)	Substance is listed.			
Proposition 65 (California):				
Chemicals known to cause cancer:	Substance is not listed.			
Chemicals known to cause reproductive toxicity for females:	Substance is not listed.			
Chemicals known to cause reproductive toxicity for males:	Substance is not listed.			
Chemicals known to cause developmental toxicity:	Substance is not listed.			
Carcinogenic Categories				
EPA (Environmental Protection Agency)	14075-53-7 potassium tetrafluoroborate	I (oral)		
IARC (International Agency for Research on Cancer)	14075-53-7 potassium tetrafluoroborate	3		
TLV (Threshold Limit Value established by ACGIH)	14075-53-7 potassium tetrafluoroborate	A4		
MAK (German Maximum Workplace Concentration)	Substance is not listed.			
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.			
Canada				
Canadian Domestic Substances List (DSL)	Substance is listed.			
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.			
Canada Ingredient Disclosure list (limit 1%)	Substance is not listed.			
	Other regulations, limitations and prohibitive regulations			
Substances of very high concern (SVHC) according to REACH, Article 57	Substance is not listed.			

15.2	Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out.
		ou.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Additional information:

The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.



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The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.

In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from the potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the SDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Sources

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