WASHINGTON MILLS

Printing date: 28.08.2017

Safety data sheet According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

Revision: 27.06.2018

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

1.1	Product Identifier	Sulfex: Red, Blue, Yellow, Pyrite, Iron Pyrite, Pyrical, Sulfex 325, Sulfex 06 HQ
	GHS Product Identifier	Sulfex: Red, Blue, Yellow, Pyrite, Iron Pyrite, Pyrical, Sulfex 325, Sulfex 06 HQ
	Chemical Name	Iron Pyrite
	Trade Name	See Product Identifier
	CAS No.	1309-36-0
	EINECS No.	215-167-7
	REACH Registration No.	Not available
1.2	Relevant Identified Uses C	of The Substance Or Mixture And Uses Advised Against
	Application of the substance / the mixture	Industrial uses.
1.3	Details Of The Supplier Of	The Safety Data Sheet
	Company Identification	Washington Mills
	Address	1801 Buffalo Avenue
		Niagara Falls, NY 14302
	Telephone	1-800-828-1666
	E-Mail (Competent Person)	info@washingtonmills.com
1.4	Emergency Telephone Nu (800)255-3924 (USA/Canac	mber – ChemTel Ia), 813-248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification C	Of The Substance	e Or Mixture			
2.1.1 2.2 2.2.1	The following cla regulation: Comb May form combu The substance is Label Elements	assifications are a bustible Dust. ustible dust conce s not classified as	ulation (EC) No. pplicable only to C ntrations in air. (U hazardous accord egulation (EC) No	OSHA (USA) re SA GHS Only) ding to the CLF	P regulation.	
	Hazard Pictogram(s)	Not Regulated	0 ()	Signal Word(s)	WARNING Applicable only within the United States (USA)	
	Hazard-determi Hazard Statement(s)	ning components of labelling: None The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: Combustible Dust. May form combustible dust concentrations in air. (USA GHS Only)				
	Additional information Hazard descript NFPA ratings (scale 0 - 4)	EUH032 Conta	ct with acids libera Health = 1 Fire = 1 Reactivity = 0			
	HMIS-ratings (scale 0 - 4)	HEALTH 1 FIRE 1 REACTIVITY 0	Health = 1 Fire = 1 Reactivity = 0			
2.3	HMIS Long Term Health Hazard Substances Other Hazards	Substance is no	ot listed.			

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May form explosible dust-air mixture if dispered.

Results of PBT **PBT:** Not applicable. and vPvB vPvB: Not applicable. assessment

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances **CAS No. Description** 1309-36-0 Pyrite (FeS2) Identification number(s) EC number: 215-167-7

SECTION 4: FIRST AID MEASURES

4.1	Description of First Aid	I Measures
	General Information:	Take affected persons out into the fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration.
	After Inhalation:	Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration.
	After Skin Contact:	Brush off loose particles from skin. Immediately wash with soap and water and rinse thoroughly. 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.
	After Swallowing:	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
4.2	Most Important	
	Symptoms And Effects, Both Acute And Delayed	Breathing difficulty, Coughing, Nausea in case of ingestion, Gastric or intestinal disorders when ingested.
	Hazards	Danger of impaired breathing.
4.3	Indication Of The	Contains inorganic sulphides. Consult literature for specific antidotes.
	Immediate Medical	Medical supervision for at least 48 hours.
	Attention And Special	If necessary oxygen respiration treatment.
	Treatment Needed	If blue colouring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible.

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	Special Hazards Arising	May form combustible dust concentrations in air.
	From The Substance Or Mixture	During heating or in case of fire poisonous gases are produced.
5.3	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

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6.1	Personal Precautions, Protective Equipment And Emergency Procedures	Ensure adequate ventilation. Avoid formation of dust. Wear protective equipment. Keep unprotected persons away. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
6.2	Environmental Precautions	No special measures required.
6.3	Methods And Material For	Pick up mechanically. Dispose contaminated material as waste according
	Containment And Cleaning Up	to item 13. Send for recovery or disposal in suitable receptacles.
6.4	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.

SECTION 7: HANDLING AND STORAGE

	Precautions For Safe	Prevent formation of dust. Any unavoidable deposit of dust must be regularly
7.1	Handling	removed. Use only in well ventilated areas. Do not dry clean dust covered objects
	-	and floors. Wash thoroughly with plenty of water.
	Information About	Dust can combine with air to form an explosive mixture.
	Fire – and explosion	Keep respiratory protective device available.
	protection	Keep ignition sources away - Do not smoke.
7.2	Conditions For Safe S	torage, Including Any Incompatibilities:
	Requirements to be	Avoid storage near extreme heat, ignition sources or open flame.
	Met by Storerooms	Provide ventilation for receptacles.
	and Receptacles:	
	Information About	Store away from foodstuffs.
	Storage in One	Do not store together with oxidising and acidic materials.
	Common Storage	Protect from humidity and water.
	Facility:	
	Further information	Store in cool, dry conditions in well sealed receptacles.
	about storage	Keep container tightly sealed.
	conditions:	
7.3	Specific End Use(s)	No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredi	ents with limit v	alues that req	uire monitoring a	t the workplace:
			PEL (USA)	Long-term value: 15 (total), 5 (resp.) mg/m ³
Pyrite (FeS2) 13		1309-36-0	REL (USA)	Long-term value: 1 mg/m³ as Fe
			TLV (USA)	Long-term value: 1 mg/m³ as Fe
8.2	itional information: The lists valid during the making were used as basis. Exposure Controls			
8.2.2	Personal Prot	ective Equipm	ent:	
General protective and hygienic measures:The usual precautionary measures are to be adhered to when handling chem Immediately remove all soiled and contaminated clothing. Keep away from foodstuffs, beverages and feed. Do not inhale dust / smoke / Avoid contact with the eyes and skin. Wash hands before breaks and at the e 			0	
	hygienic	Keep awa Avoid cor	ay from foodstuffs,	beverages and feed. Do not inhale dust / smoke / mist.
	hygienic	Keep awa Avoid cor work.	ay from foodstuffs, ntact with the eyes	beverages and feed. Do not inhale dust / smoke / mist.

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8	Eye Protection	Safety glasses.
	Protection of Hands	Wear protective gloves.
	Body Protection	Protective work clothing.
	Limitation and supervision of exposure into the environment	No further relevant information available.
	Risk Management Measures	See Section 7 for additional information. No special requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information On Basic	c Physical And Chemical	Properties	
	Appearance	Granulate	Color	Color Varies
	Odor	Pungent	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. May form combustible dust concentrations in air.	Ph (Value)	Not available
	Evaporation Rate	N/A	Vapor Pressure (mm Hg)	Not available
	Vapor Density (Air=1)	N/A	Density at 20 °C:	4,7 g/cm ³
	Solubility (Water)	Insoluble	Solubility (Other)	Not available
	Partition Coefficient (N-Octanol/Water)	Not available	Viscosity (mPa.s)	Not available
9.2	Other Information	No further relevant in	formation available.	

SECTION 10: STABILITY AND REACTIVITY

10.1 10.2	Reactivity Chemical Stability	
	Thermal Decomposition / conditions to be avoided:	May form combustible dust concentrations in air.
10.3	Possibility of Hazardous Reactions	Reacts with water. Contact with acids releases toxic gases. Reacts with acids, alkalis and oxidising agents. As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion. Toxic fumes may be released if heated above the decomposition point.
10.4	Conditions To Avoid	Moisture. Avoid acids. Store away from oxidising agents.
10.5	Incompatible Materials	Contact with acids liberates toxic gas.
10.6	Hazardous Decomposition Product(s)	Hydrogen sulphide, Sulphur oxides (SOx), Toxic metal oxide smoke

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.
Repeated dose toxicity:	May cause metal fume disease.

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SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	
	Aquatic toxicity:	No further relevant information available.
12.2	Persistence and Degradability	Inorganic product, is not eliminable from water by means of
		biological cleaning processes.
12.3	Bioaccumulative Potential	No further relevant information available.
12.4	Mobility in Soil	No further relevant information available.
	Additional ecological information:	
	General notes:	Negative ecological effects are, according to the current state of
		knowledge, not expected. Due to available data on
		eliminability/decomposition and bioaccumulation potential a
		prolonged damage of the environment is unlikely.
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	Smaller quantities can be disposed of with household waste.
		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 UN Number** None None Not classified as Not classified as dangerous for **Proper Shipping Name Proper Shipping Name** dangerous for transport. transport. Transport Hazard Class(es) None Transport Hazard Class(es) None Packing Group None Packing Group None Hazard Label(s) None Hazard Label(s) None **Environmental Hazards** None **Environmental Hazards** None Special Precautions For User None Special Precautions For User None Sea Transport (IMDG) (c) Air Transport (ICAO/IATA) (c) (d) **UN Number UN Number** None None Not classified as Not classified as dangerous for **Proper Shipping Name Proper Shipping Name** dangerous for transport. transport. Transport Hazard Class(es) None Transport Hazard Class(es) None Packing Group None Packing Group None Marine Pollutant None Marine Pollutant None Special Precautions For User None Special Precautions For User None

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

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SECTION 15: REGULATORY INFORMATION

United Sates (USA) SARA			
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)	Substance is not listed.		
IARC (International Agency for Research on Cancer)	Substance is not listed.		
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.		
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 not 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	e 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.

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.
- 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.

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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:

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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 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 ELINCS: European List of Notified 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

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com