Potassium Ethyl Xanthate:





SINORAN MINING&METALLURGY EQUIPMENT CO., LTD

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name: SINORAN MINING&METALLURGY EQUIPMENT CO.,LTD.

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Date of issue: 2020 Jan 7.

PRODUCT IDENTIFICATION:

Product Name: Potassium Ethyl Xanthate, Solid.

Date of Revision: 2015 Sep 17

Chemical Name: Potassium Ethyl Xanthate.

Synonyms: Potassium Xanthogenate; Potassium Ethyl Dithiocarbonate.

Chemical Family: Salts of carbonic acid dithio esters.

Molecular Formula: C₃H₅OS₂K Product Use: Flotation agent.

2. HARZARDS IDENTIFICATION

CLASSIFICATION

This chemical isconsidered hazardous by the 2012 OSHA Hazard Communication Standard(29 CFR 1910.1200)

Acute oral toxicityCategory 4Skin Corrosion/IrritationCategory 2Serious Eye Damage/Eye IrritationCategory 2Specific Target Organ Toxicity(single exposure)Category 3

Target Organs Respiratory System

LABEL ELEMENTS

Single Word

Warning

Hazard Statements

Harmful if swallowed Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: 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

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

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

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Carbonodithioic acid, O-ehtyl ester,	140-89-6	≥95
potassium salt		

4. FIRST-AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with soap and plenty of water while

removing all contaminated

clothes and shoes. Get medical attention.

Inhalation Remove from exposure, lie down. Remove to fresh air. If

not breathing, give artificial

respiration. Get medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms and effectsNo information available.Notes to PhysicianTreat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical.

Chemical foam.

Unsuitable Extinguishing MediaNo information availableFlash PointNo information availableMethodNo information available

Autoignition Temperature

Explosion Limits

UpperNo data availableLowerNo data available

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge

No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Use personal protective

equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for

disposal. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Do not breathe dust. Do

not ingest. If swallowed then seek immediate medical

assistance.

Storage Keep in a dry, cool and well-ventilated place. Refer

product specification and/or product label for specific storage temperature requirement. Keep container tightly

closed.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials

with occupational exposure limits established by the

region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Ensure that eye wash stations and safety showers are

close to the workstation location.

Personal Protective Equipment

Eye/face Protection This product does not contain any hazardous materials

with occupational exposure limits established by the

region specific regulatory bodies.

Skin and body protectionEnsure adequate ventilation, especially in confined areas.

Ensure that eye wash stations and safety showers are

close to the workstation location.

Respiratory Protection No protective equipment is needed under normal use

conditions

Hygiene Measures Handle in accordance with good industrial hygiene and

safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES (Not Intended As Specifications)

Physical State Powder Solid
Appearance Yellow

Odor No information available
Odor threshold No information available

oH 209 - 214 °C / 408.2 - 417.2 °F

Melting Point/Range No information available
Boiling Point/Range No information available
Flash Point No information available

Evaporation Rate Not applicable

Flammability(solid, gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific Gravity

No information available

No information available

Partition coefficient, n-octano/water No data available

Auto-ignition Temperature

Decomposition Temperature No information available

 $\begin{array}{ll} \mbox{Viscosity} & \mbox{Not applicable} \\ \mbox{Molecular Formula} & \mbox{C_3H}_5\mbox{OS}_2\mbox{K} \\ \mbox{Molecular Weight} & \mbox{160.3} \end{array}$

10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available

Stability Stable under normal conditions

Conditions to Avoid Exposure to light, incompatible products

Incompatible Materials Strong oxidizing agents, strong acids, strong bases,

Hazardous Decomposition Products Carbon monoxide(CO₂), Carbon dioxide(CO₂), Sulfur

oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Carbonodithioic acid,	LD50=1700mg/kg(Rat)	Not listed	Not listed
O-ethyl ester, potassium			
salt			

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

IrritationNo information availableSensitizationNo information available

Carcinogenicity The table below indicates whether each agency has listed ingredient as a

carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	MEXICO
Carbonodithioic acid,	140-89-6	Not listed				
O-ethyl ester, potassium						
salt						

Mutagenic Effects None known, based on information available

Reproductive Effects Stable under normal conditions

Development Effects Exposure to light, incompatible products

Teratogenicity Strong oxidizing agents, strong acids, strong bases,

STOT-single exposure Respiratory system

STOT-repeated exposure None known

Aspiration hazard No information available Symptoms/effects, both acute and delayed No information available

Endocrine Disruptor Information

Other Adverse Effects

No information available

The toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Carbonodithioic acid,	Not listed	LC50:15-25mg/L, 96h	Not listed	Not listed
O-ethyl ester,		static(Oncorhynchus		
potassium salt		mykiss)		

Persistence and Degradability Soluble in water Persistence is unlikely based on

information available.

Stability No information available.

Conditions to Avoid Will likely be mobile in the environment due to its water

solubility.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a

discarded chemical is classified as a

hazardous waste. Chemical waste generators must also

consult local, regional, and

national hazardous waste regulations to ensure complete

and accurate classification

14.TRANSPORTATION INFORMATION

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15.REGULATORY INFORMATION

USA

Component	CAS-NO	TSCA	TSCA Inventory notification-Acti ve/Inactive	TSCA-EPA Regulatory Flags
Carbonodithioic	140-89-6	Х	ACTIVE	-
acid, O-ethyl ester, potassium salt				

Legend

TSCA-Toxic Substances Control Act(40 CFR Part 710)

X-Listed

' 'Not listed

TSCA 12(b)-Notices of Export

Not applicable

INTERNATIONAL

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-NO	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Carbonodithioic acid,	140-89-6	Х	-	205-439-3	X	Х	Х	Х	KE-047
O-ethyl ester,									48
potassium salt									

US Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA(Clean Water Act)

Clean Air Act

Not applicable

Not applicable

OSHA- Occupational Safety and Health Not applicable

Administration

California Proposition 65 This product does not contain any Proposition 65

chemicals

U.S. State Right-to-know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Carbonodithioic acid,	X	-	X	-	-
O-ethyl ester,					
potassium salt					

U.S. Department of Transportation

Reportable quantity(RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland SecurityThis product does not contain any DHS chemicals.

16.OTHER INFORMATION

Prepared By Health, Safety and Environmental Department

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No. 140-89-6/2

Disclaimer

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END OF SDS