

# SAFETY DATA SHEET

Revision Date 18-Feb-2020

**Revision Number** 2

1. Identification		
Product Name Cobalt(II) thiocyanate		
Cat No. :	B23460	
CAS-No Synonyms	3017-60-5 No information available	
Recommended Use Laboratory chemicals.   Uses advised against Food, drug, pesticide or biocidal product use.   Details of the supplier of the safety data sheet		
Company Alfa Aesar Thermo Fisher Scientific Chemi 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	cals, Inc.	
	er Monday-Friday, 8am-7pm EST), call (800) 343-0660. Il Carechem 24 at (866) 928-0789.	

# 2. Hazard(s) identification

Category 4

Category 4

Category 4

Category 1B

### Classification

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

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Carcinogenicity

### Label Elements

Signal Word Danger

### **Hazard Statements**

May cause cancer Harmful if swallowed, in contact with skin or if inhaled



# **Precautionary Statements**

Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Very toxic to aquatic life with long lasting effects

Contact with acids liberates very toxic gas

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Thiocyanic acid, cobalt(2+) salt	3017-60-5	<=100

4. First-aid measures		
General Advice	If symptoms persist, call a physician.	
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 plenty of water for at least 15 minutes. If skin irritation persists, call a physician.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.	

Most important symptoms and None reasonably foreseeable.	
effects Notes to Physician	Treat symptomatically
	5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO 2). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available

### **Specific Hazards Arising from the Chemical**

Do not allow run-off from fire-fighting to enter drains or water courses.

### **Hazardous Combustion Products**

Cobalt 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
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Health 4	Flammability 0	<b>Instability</b> 0	Physical hazards -
	6. Accidental re	ease measures	
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.		
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Protect from moisture.

### Storage

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### 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Thiocyanic acid, cobalt(2+)	TWA: 0.02 mg/m <sup>3</sup>			TWA: 0.02 mg/m <sup>3</sup>
salt				

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures	Ensure adequate ventilation, especially in confined areas.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

# 9. Physical and chemical properties

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Physical State	Solid
Appearance	No information available
Odor	Odorless
Odor Threshold	No information available
pН	No information available
Melting Point/Range	No data 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
Solubility	No information available
Partition coefficient; n-octanol/wate	r No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C2 CoN2 S2
Molecular Weight	175.10
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# 10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Moisture sensitive.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Oxidizing agent	
Hazardous Decomposition Products Cobalt oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	

**Hazardous Reactions** None under normal processing. 11. Toxicological information Acute Toxicity **Product Information Component Information Toxicologically Synergistic** No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation No information available No information available Sensitization Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. NTP ACGIH Component CAS-No IARC OSHA Mexico Thiocyanic acid, 3017-60-5 Not listed Reasonably A3 Not listed Not listed cobalt(2+) salt Anticipated NTP: (National Toxicity Program) NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen A1 - Known Human Carcinogen ACGIH: (American Conference of Governmental Industrial A2 - Suspected Human Carcinogen Hygienists) A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hygienists) **Mutagenic Effects** No information available **Reproductive Effects** No information available. **Developmental Effects** No information available. No information available. Teratogenicity STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects, both acute and No information available delayed **Endocrine Disruptor Information** No information available **Other Adverse Effects** The toxicological properties have not been fully investigated. 12. Ecological information

### **Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	May persist
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	No information available.

### 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. Transport information

DOT	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Technical Name	(Cobalt(II) thiocyanate)
Hazard Class	9
Packing Group	III
TDG	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IATA	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IMDG/IMO	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
	15. Regulatory information

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Thiocyanic acid, cobalt(2+) salt	3017-60-5	Х	ACTIVE	-

#### Legend:

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

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### International Inventories

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
Thiocyanic acid, cobalt(2+) salt	3017-60-5	-	Х	221-156-8	-	-	Х	-	-

### U.S. Federal Regulations

### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Thiocyanic acid, cobalt(2+) salt	3017-60-5	<=100	0.1

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

CWA (Clean Water Act) Not applicable

#### **Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Thiocyanic acid, cobalt(2+) salt	Х		-

**OSHA** - Occupational Safety and Not applicable Health Administration

### CERCLA

Not applicable

### **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
Thiocyanic acid,	-	Х	Х	Х	-
cobalt(2+) salt					

### **U.S.** Department of Transportation

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

### **U.S. Department of Homeland** Security

This product does not contain any DHS chemicals.

# Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	18-Feb-2020 18-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 3017-60-5/2.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# End of SDS