

Nickel(II) triflate Safety Data Sheet 61642X3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/16/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
	: Substance		
Substance name	: Nickel(II) triflate		
CAS No	: 60871-84-3		
Product code	: 6164-2-X3		
Formula	: C2F6NiO6S2		
Other means of identification	: MFCD00673740		
1.2. Relevant identified uses of the substa	ance or mixture and uses advised ag	ainst	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and developmen		
1.3. Details of the supplier of the safety da	ata sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number			
	: (844) 523-4086 (3E Company - Acc	ount 10069)	
	. (0++) 323-4000 (3E Company - ACC	Suit 10003)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mix	xture		
Skin Irrit. 2H315 - Causes skin irritationEye Dam. 1H318 - Causes serious eye damaSkin Sens. 1H317 - May cause an allergic skirSTOT SE 3H335 - May cause respiratory irritFull text of H-phrases: see section 16	reaction		
2.2. Label elements			
GHS-US labeling Hazard pictograms (GHS-US)	: GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H315 - Causes skin irritation H317 - May cause an allergic skin re H318 - Causes serious eye damage H335 - May cause respiratory irritati		
Precautionary statements (GHS-US)	P261 - Avoid breathing dust, mist, si P264 - Wash skin thoroughly after h P271 - Use only outdoors or in a we P272 - Contaminated work clothing P280 - Wear protective gloves/prote P302+P352 - If on skin: Wash with p P304+P340 - If inhaled: Remove pe P305+P351+P338 - If in eyes: Rinse lenses, if present and easy to do. Co P310 - Immediately call a POISON (P321 - Specific treatment (see supp P332+P313 - If skin irritation occurs	oray andling I-ventilated area must not be allowed out of the workplace ctive clothing/eye protection/face protection lenty of soap and water rson to fresh air and keep comfortable for bre e cautiously with water for several minutes. R ontinue rinsing CENTER or doctor/ physician emental first aid instructions on this label)	
	P362+P364 - Take off contaminated P363 - Wash contaminated clothing		

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- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type	: Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
Nickel(II) triflate (Main constituent)	(CAS No) 60871-84-3	<= 100	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-phrases: see section 16

i un text of 11-prilases. see section to	
3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general :	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
First-aid measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact :	Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact :	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion :	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/injuries :	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.		
5.2. Special hazards arising from the su	ubstance or mixture		
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nickel/nickel oxides . Sulfur oxides.		
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".		
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective e	quipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders			

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautio	ns	
Avoid release to the environment. No	tify authorities if product enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so.	
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.	
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. Reference to other section	ns	
No additional information available		
SECTION 7: Handling and s	torage	
7.1. Precautions for safe hand	dling	
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe stora	ge, including any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.	
ncompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	

SECTION 8: Exposure controls/personal protection 8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical ar	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 100 - 106 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available

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Relative vapor density at 20 °C	: No data available
Molecular mass	: 356.83 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
No add	itional information available		
10.2.	Chemical stability		
The product is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions		
No additional information available			
10.4.	Conditions to avoid		
Keep a	way from heat, sparks and flame.		
10.5.	Incompatible materials		
Strong oxidizing agents.			

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated	: Not classified	

Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information			
12.1.	Toxicity		
No additional information available			
12.2.	Persistence and degradability		
No additional information available			
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No add	itional information available		

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations					
13.1. Waste treatment methods					
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.				
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.				
Additional information	: Recycle the material as far as possible.				
SECTION 14: Transport information	tion				

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

Nickel(II) triflate CAS No 60871-84-3 100%	Substances control Act (130A) inventory exception.				
	Nickel(II) triflate	CAS No 60871-84-3	100%		

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.