

Material safety data sheet (MSDS)

According to 91/155/EWG

QuFe13

1. Identification of the substance/preparation and of the company/undertaking

1.1. Trade name

COPPER COATED LASER WELDING WIRE

Product Name: PUK U4 WELD WIRE, H-13

Product Number(s): 8302611, 8302613, 8302614, 8302615, 8302616, 8302617

1.2. Manufacturer and Supplier

Paul H. Gesswein & Co., Inc.

201 Hancock Ave., Bridgeport, CT 06605

Phone: 203-366-5400, FAX: 203-366-3953

email: info@gesswein.com, www.gesswein.com

Emergency phone number: CHEMTELL - 800-255-3924

2. Composition/information on ingredients

Chemical characterization

Name of Ingrediens	Vol %	CAS-Nr.
Carbon	0,1-0,25	7433-96-5
Manganese	0,6-0,7	7439-96-5
Chromium	5,0-6,5	7440-47-3
Molybdenum	3,3-4,0	7439-98-7
Silicon	0,4-0,5	7440-33-6
Titanium	0,4-0,6	7440-03-1
Iron	Rest	7439-89-6

3. Hazards identification

Hazard description:

During laser welding and grinding, smolder and dusk is coming up. There can be some irritation thru manganese oxide and fine dust (mostly ferrous oxide).

Information concerning particular hazards for human and environment:

Not applicable

Classification system: The classification is according to the latest editions of the EU-lists and extended by company and literature data. Here not applicable.

4. First-aid measures

After inhalation: Supply fresh air and to be sure call for a doctor if necessary

After skin contact: after contact with melted metal proceed with general First-Aid-Measures

After eye contact: not required

After swallowing: not required

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions

Protective equipment:

Mount respiratory protective device

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Not required

Measures for environmental protection: No special measures required

Measures for cleaning/collecting: Not required

7. HANDLING AND STORAGE

7.1. Handling:

Information for safe handling:

Extractors are required on all machines used for thermal processing or splinter removal processes. Prevent formation of dust.

Information about fire – and explosion protection:

No special measures required

7.2. Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Class according to regulation on flammable liquids: Void

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Additional information about design of technical facilities:

No further data; see item 7.

8.2. Ingredients with limit values that require monitoring at the workplace:

CAS-Nr.	Designation of substances		Long-term value
7439-96-5	Manganese dust	MAK	0,5mg/qm
7440-47-3	Chromium G	TRK	0,1mg/qm
7439-89-6	Iron	MAK	6 mg/qm
1345-25-1	Iron oxyde FeO, F	MAK	6 mg/qm
1309-37-1	Iron oxyde 2Fe2O3,F	MAK	6 mg/qm
7439-98-7	Molybdenum	MAK	6 mg/qm
	General dust limit		

8.3. General protective and hygienic measures:

Vacuum clean contaminated clothing. Do not blow or brush off contamination. Do not eat or drink while working. Do not inhale dust/smoke/mist. Wash hands before breaks and at the end of work.

8.4. Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Heat protection gloves

Eye protection: safety glasses

Body Protection: protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

Shape: solid, welding wire
Color: red (or grey-) blank
Odour: odourless

9.2. Security relevant Data

Melting point/Melting range: approx. 1400 °C
Boiling point/Boiling range: undetermined
Flash point: not applicable
Self-igniting: Product is not self-igniting
Organic solvents: 0,0%
Solubility in / Miscibility with water: Insoluble
Danger of explosion: Product does not present an explosion hazard
Density: 7,5 – 8,5 g/cm³

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications

Dangerous reactions: No dangerous reactions known

Dangerous decomposition products: No dangerous decomposition products known

11. TOXICOLOGICAL INFORMATION

Acc. No. 3

12. ECOLOGICAL INFORMATION

General Notes: Working with an extraction system, the general TA-Air limit values are applying. TA-Air: 5mg/m³ during a mass flow > 25g/h

Water hazard class: 0 (self-rating); in general no water hazard

13. DISPOSAL CONSIDERATIONS

Product: Recommendation contact waste processors for recycling information.

Un-cleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Non dangerous goods acc. the general transport instructions ADR/RID and GGVS/GGVE, IMDG/GGVSee-Code, ICAO/IATA-DGR.

15. REGULATORY INFORMATION

15.1. Labelling according to EU guidelines:

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

15.2. National Regulations

Classification according to VbF: Void
Water hazard class: Water hazard class 0
TA-Air: 5mg/m³ during a mass flow > 25g/h

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.

EG - Safety Data Sheet

According to regulation (EG) Nr. 1907/2006 (REACH)



Filler metal: Laser filler metal (Fused wire)	Print Date: 02.10.2015 Review Date: 02.10.2015 Version: 1.0 / DE
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Product Name: PUK Welding Wire, 420 SS

Manufacturer Information
Product Numbers:

8302561, 8302562, 8302563, 8302564, 8302565, 8302566, 8302567

 quada V+F Laserschweißdraht GmbH
 Bachstraße 19
 58239 Schwerte

Supplier Information

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 201 Hancock Ave., Bridgeport, CT 06605
 Phone: 203-366-5400, FAX: 203-366-3953
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 Internet: www.quada-office.com

Emergency phone number: CHEMTELL - 800-255-3924

Contact: Mr. Freeth / Mr. Freitagsmüller

1.2 Product description

	C	Si	Mn	Cr	Ni	Mo	V	W
QuFe11	0,10	0,30	0,60	6,20		3,20		
QuFe12	0,30	0,25	0,40	2,50			0,60	4,50
QuFe13	0,25	0,30	0,60	5,00		3,60		
QuFe20/21	0,35	0,40	1,10	7,00		2,20		
QuFe23	0,38	1,00	0,40	5,00		1,10	0,45	
QuFe30	0,45	3,00	0,80	9,00	0,60			
QuFe31	0,30	1,10	0,40	5,20		1,40	0,40	1,35
QuFe35	0,22	0,70	0,7	17,5		1,20		
QuFe60	1,00	0,30	0,30	4,00		8,30	1,90	1,80
QuMed4122	0,40	0,40	0,40	17,5	0,50	1,10		

1.3 Material

Name:	CAS-Nr.	Pre.Reach Nr.
Manganese (Mn)	7439-96-5	
Nickel (Ni)	7440-02-0	
Chrome (Cr)	7440-47-3	
Copper (Cu)	7440-50-8	TS467754-95
Molybdenum	7439-98-7	
Iron (Fe)	7439-89-6	KL487430-30
Silicone (Si)	7440-21-3	MR467556-04
Vanadium (V)	7440-62-2	
Calcium Fluoride	7789-75-5	
Wolfram Carbide	12070-12-1	
Titan (Ti)	7440-32-6	

1.3.1 Zusätzliche Hinweise

The transition period acc. REACH-regulation is still effective.

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Filler metal: Laser filler metal (Fused wire)	Print Date: 02.10.2015 Review Date: 02.10.2015 Version: 1.0 / DE
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2. Possible Dangers

2.1 Classification

Material (mg/m ³)	(CAS No.) SARA	ACGIH TLV TWA (mg/m ³)	OSHA-PEL TWA (mg/m ³)	STEL
Chrom (Cr) (Metal)	(7440-47-3) *	0.5 (Metal)	1	
		0.05 (CrVI mineral combination like Cr, water-soluble)	0.005 (CrVI mineral combination like CrVI, water-soluble)	
		C 0.1	(as CrO ₃)	
		0.01 (CrVI mineral combination like Cr, water-soluble)	0.005 (CrVI mineral combination like CrVI, water-soluble)	
		C 0.1	(as CrO ₃)	
Columbium (Cb)	(7440-03-1)	10 (Nuisance Particulate)	5 (Fine dust)	--
Copper(Cu)	(7440-50-8) *	0.2 (Fume)	0.1 (Fume)	--
Iron (Fe)	(7439-89-6)	5 (Oxide Fume)	10 (Total Particulate)	--
Manganese (Mn)	(7439-96-5) *	0.2 (Fume)	1 (Fume)	3
Molybdenum (Mo), Insoluble Compounds as Mo Soluble Compounds as Mo	(7439-98-7)	10 (Inhalable Fraction)	5 (Soluble)	--
		3 (Respirable Fraction)		
		0.5 (Respirable Fraction)		
Nickel (Ni)	(7440-02-0) *	1.5 (Inhalable Fraction, elemental)	0.1 (Soluble)	--
		0.2 (Inhalable insoluble inorganic compounds)		
		0.1 (Inhalable soluble inorganic compounds)		
Silicone (Si)	(7440-21-3)	10 (Dust)	5 (Inhalable)	--
Titan (Ti)	(7440-32-6)	10 (TiO ₂)	5 (TiO ₂ - Inhalable)	--
Vanadium (V)	(7440-62-2) 0.05	(as Oxide)	0.1 (as Oxide)	
Tungsten Carbide	(12070-12-1)	Not listed	Not listed	

2.2 Description of the Dangers

Fumes and dust are caused by welding and grinding. It is possible that manganese oxide, fine dust (mainly iron-oxide) and ozone are produced.

3. First-Aid Measures

General Information

After inhalation:	Take deep breaths of fresh air. In the case of extreme amounts of fumes/dust a doctor should be consulted.
After skin contact:	Wash the skin carefully with soap.
After eye contact:	Wash the widely opened eyes with running water for some minutes and if necessary consult a doctor.
After swallowing:	Consult a doctor
Information for the doctor:	Examination acc. to BG-Grunds.G39

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4. Fire-fighting measures

Fire fighting: Not applicable because the product cannot burn or explode

Suitable extinguishing agent: Not applicable, when other materials are burning, all are suitable

5. Measures to be taken upon accidental release

Not applicable

6. Handling and Storage

6.1 Handling

Information for safe handling: The UVV (VBG 15) must be adhered to.

6.2 Storage

Specifications for stores and containers: No special safety specifications are required



7. Limitation of exposure and protective equipment

7.1 Additional information for the design of technical equipment

Measures acc. to 7.1 are to be observed.

7.2 Personal protective equipment

Respiratory, Hand, Eye, Body protection
Protection and hygiene measures:

Refer to UVV (VBG 15), §27
No smoking, eating or drinking in the place of work

7.3 Elements with supervised work-place-relevant threshold values.

Material description	CAS-No.	Threshold values acc. to Threshold Value Regulations 2003 - GKV 2003 or General safety rules for employees (internal) RL 89/391/EWG
Nickel oxide	1313-99-1	E 0,5 mg/m ³ (TRK)
Manganese oxide (Mn ₃ O ₄)	1317-35-7	E 0,5 mg/m ³ (MAK)
Chrom-VI-Combinations	13765-19-0	E 0,1 mg/m ³ (TRK)
Fluoride	--	E 2,5 mg/m ³ (MAK)
Biologically inert particles	--	E 15 mg/m ³ (MAK) annual average A 6 mg/m ³ (MAK) annual average

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8. Physical und chem. properties

Appearance:	Solid wire/ solid rods; metal
Relevant safety data:	Density: 8 kg/dm ³ Melting point: ~1450°C (bis 800°C stable)

9. Stability and Reactivity

Under certain conditions the product can react to acids.
This reaction can cause poisonous, inflammable gases.

10. Information about toxicology

Ref. position 3

11. Information about ecology

The threshold values of the TA-Luft are valid when running the extraction system.
For others ref to point 15.

12. Directions for disposal

Product

Recommendation: Dust and particles out of the extraction system must be properly disposed of. It is also possible to scrap the products in a normal manner. Recycling is possible.

Waste Key-No.:

- 31217 Filter dust, NE-components
- 35315 other NE-component remains without Aluminium und Magnesium-Waste
- 18711 Paper filter with mainly dangerous mineral contamination.

Contaminated packing

Cartons: Disposal via Recycling, because of no contamination

Plastics: Disposal via Recycling, because of no contamination

13. Information about transportation

Note: The products are not hazardous goods as defined by transport regulations.

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14. Marking regulations



Code letters

Danger description

GHS 07

GHS 08

Signalwort

Achtung

H-sentences

H317: Can cause allergic skin reaction.

H335: Can irritate the respiratory passages.

H351: Can possibly cause cancer

H372: Can damage the lungs

P201: Obtain special instructions before using.

P202: Read and understand the safety instructions before using.

P260: Do not breath in Dust / Smoke/ Gas / Mist / Steam

P264: Thoroughly wash after use.

P271: Only use in the open air or well aired rooms.

P280: Wear safety gloves / safety clothing / eye protection

National Regulations

Information about limitations of employment:

Non-applicable

incident V:

Non-applicable

Classification acc. toVbF:

Non-applicable

Water hazard class:

Hazard is non-applicable

Other regulations:

Unknown

15. Other information

Literature:

- Accident prevention regulations (VBG 15) Welding , Cutting and related procedures
- DVS data sheet 1201:
Fume extraction on welding work places
- DVS leaflet about work safety for welders
Work safety- Kraume, Zober: Work Safety and Health Safety during Welding.

Heat Treatable Tool & Die Tig and Mig Wire

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Heat Treatable Tool & Die Tig and Mig Wire
Common Name:
Revision Date: 5/28/2015
Version: 2
Product Name: U4 WELD WIRE S7
Product Number: Item#: 8302654, 8302655, 8302657
Supplier Details: Paul H. Gesswein & Co., Inc.
201 Hancock Ave., Bridgeport, CT 06605
Phone: 203-366-5400, FAX: 203-366-3953
email: info@gesswein.com, www.gesswein.com
Emergency: Emergency phone number: CHEMTELL - 800-255-3924

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

- Health, Skin corrosion/irritation, 1
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Carcinogenicity, 1
- Health, Specific target organ toxicity - Repeated exposure, 2

GHS Label elements, including precautionary statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

- H314 - Causes severe skin burns and eye damage
- H335 - May cause respiratory irritation
- H350 - May cause cancer
- H373 - May cause damage to organs through prolonged or repeated exposure
- CGA-HG11 - SYMPTOMS MAY BE DELAYED.

GHS Precautionary Statements:

- P232 - Protect from moisture.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- CGA-PG27 - Read and follow the Safety Data Sheet (SOS) before use.

Hazards not otherwise classified (HNOC) or not covered by GHS

Route of Entry: Eyes; Skin
Target Organs: Throat; Nose; Respiratory system

Inhalation: Short term overexposure to welding fumes may result in discomfort such as: dizziness, nausea, or dryness or irritation of the nose, throat, lungs, and/or eyes.
ACCUTE EFFECTS: Irritating to the nose, throat and respiratory tract.
SUBCHRONIC/CHRONIC TOXICITY
CHRONIC: Chronic overexposure to welding fumes can result in: Chronic respiratory problems, iron build-up in the lungs, bone erosion, reduced pulmonary functions and nervous disorders.

Skin Contact: The bright light produced by the arc can burn skin and eyes

Eye Contact: Fumes may be moderately irritating to the eyes

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7782-42-5	0-0.35%	Carbon aka Graphite
7439-96-5	0.05-1.6%	Manganese compounds and fumes (as Mn)
7440-21-3	0.05-1.6%	Silicon
7440-47-3	0.05-13.5%	Chromium
7440-02-0	0.05-19%	Nickel, metallic and alloys
7439-98-7	0.005-5.5%	Molybdenum: soluble and insoluble compounds
7440-33-7	0.005-10%	Tungsten Metal Powder
1314-62-1	0.005-2.2%	Vanadium, pentoxide dust and fume
7439-89-6	46.1-99.785%	Iron
7440-32-6	0-0.15%	Titanium

EXPOSURE LIMITS

<u>CHEMICAL NAME</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Carbon aka Graphite	15 mg/m3 TWA	10 mg/m3
Manganese compounds	5 mg/m3	1 mg/m3
Silicon	10 mg/m3* = Total dust, <=Respirable fraction	10 mg/m3 Total Dust
Chromium	1 mg/m3	0.5 mg/m3
Nickel Metal	1 mg/m3	1.5 mg/m3
Soluble compounds, as Mo	15 mg/m3	10 mg/m3
Tungsten	5 mg/m3 TWA, 10mg/m3 STEL	5 mg/m3 TWA, 10 mg/m3 STEL (inhalable)
Vanadium	0.05 mg/m3 TWA	1 mg/m3 TWA
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)
Titanium	10 mg/m3 NL = Not Listed	10 mg/m3

4 FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Non-irritating.

5 FIRE FIGHTING MEASURES

Welding consumables are not flammable, however the welding arc and sparks will ignite other combustible materials. Do not weld in the presence of combustible materials.

6**ACCIDENTAL RELEASE MEASURES**

GENERAL PROCEDURES: Prevent waste from contaminating the surrounding environment. Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal, provincial, and local regulations.

7**HANDLING AND STORAGE**

Storage Requirements: Store in a dry area.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION****PERSONAL PROTECTION**

EYES AND FACE: S39 - Wear eye/face protection

RESPIRATORY: Use sufficient ventilation, local exhaust at the arc, or both to keep the fumes and gases below TLV's in the workers breathing zone. In confined spaces use respirable fume respirator or air-supplied respirator.

PROTECTIVE CLOTHING: The intensity of the arc and the sparks emitted from it can cause severe burns. All skin should be covered

9**PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: The welding consumable discussed herein is composed of a wire strip or solid wire rod with or without a flux based core or outer coating.

10**STABILITY AND REACTIVITY**

Hazardous Decomposition: The composition and quantity of welding fumes generated are dependent upon several variables including the base material, base material contaminants and/or coatings (paint, galvanized, etc.) welding process utilized. Other factors that will effect the quantity of fumes available for inhalation are the number of welding operators in a designated work area, the quality of ventilation, the position of the operator with respect to the fume plume, as well as the presence of contaminants in the atmosphere from other manufacturing operations. Reasonably expected fume constituents of this product would include: complex oxides of iron, manganese, silicon, chromium, nickel, molybdenum, calcium, magnesium, and titanium.
COMMENTS: No hazard exists until this product is used in welding.

11**TOXICOLOGICAL INFORMATION**

REPRODUCTIVE TOXIN: Not known
MUTAGENICITY: Not known

12**ECOLOGICAL INFORMATION**

ENVIRONMENTAL DATA: No data available

13**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with federal, state and local regulations.

14**TRANSPORT INFORMATION**

SPECIAL SHIPPING NOTES: Special shipping considerations for this product are limited to those necessary to prevent damaging the product.

Component (CAS#) [%] - CODES

Manganese compounds and fumes (as Mn) (7439-96-5) [0.05-1.6%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Silicon (7440-21-3) [0.05-1.6%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Chromium (7440-47-3) [0.05-13.5%] CERCLA, EPCRAWPC, HWCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [0.05-19%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Molybdenum: soluble and insoluble compounds (7439-98-7) [0.005-5.5%] MASS, OSHAWAC, PA, TSCA, TXAIR

Tungsten Metal Powder (7440-33-7) [0.005-10%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(1000LBS), Vanadium, pentoxide dust and fume (1314-62-1) [0.005-2.2%] ACUTERCRA, CERCLA, CSWHS, EHS302, MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR, TXHWL

Iron (7439-89-6) [46.1-99.785%] TSCA

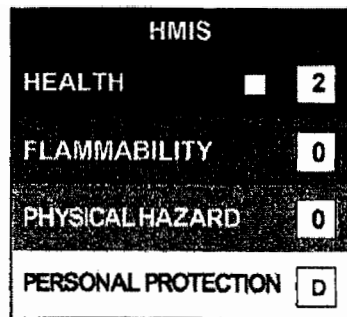
Regulatory CODE Descriptions

RQ = Reportable Quantity
 MASS = MA Massachusetts Hazardous Substances List
 NJHS = NJ Right-to-Know Hazardous Substances
 OSHAWAC = OSHA workplace Air Contaminants
 PA = PA Right-To-Know List of Hazardous Substances
 SARA313 = SARA 313 Title III Toxic Chemicals
 TSCA = Toxic Substances Control Act
 TXAIR = TX Air Contaminants with Health Effects Screening Level
 CERCLA = Superfund clean up substance
 EPCRAWPC = EPCRA Water Priority Chemicals
 HWCRA = RCRA Hazardous Wastes
 NRC = Nationally Recognized Carcinogens
 PRIPOL = Clean Water Act Priority Pollutants
 TOXICPOL = Clean Water Act Toxic Pollutants
 ACUTERCRA = RCRA Acute Hazardous wastes (P-List)
 CSWHS = Clean Water Act Hazardous substances
 EHS302 = Extremely Hazardous Substance
 TXHWL = TX Hazardous Waste List

NFPA: Health = 2, Fire = 0, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0

HMIS PPE: D - Face Shield and Eye Protection, Gloves, Apron



REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: This product contains some or all of the following

reportable ingredients; Copper, Chromium, Manganese and Nickel
TSCA (TOXIC SUBSTANCE CONTROL ACT)
"WARNING": This product contains the following chemical(s) known to the state of
California to cause cancer: Nickel (metallic) CAS# 7440-02-0