

# SAFETY DATA SHEET

## ***Randolph Products Company***

ISOLEX CONDUCTIVE COATING - 1 GAL CAN

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### **1. Product and Company Identification**

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Product Name : ISOLEX CONDUCTIVE COATING - 1 GAL CAN

Product Code : R65-GL

Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification:

Randolph Products Company

33 Haynes Circle

Chicopee, MA 01020

Information Phone: 413-592-4191

Emergency Phone: ChemTel 800-255-3924

### **2. Hazards Identification**

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EMERGENCY OVERVIEW

DANGER

Highly Flammable Liquid & Vapor, Category 2

Acute Toxicity, Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2B

Chronic Toxicity, (Toxic to Reproduction) Category 1A

Chronic Toxicity, Aspiration Hazard, Category 1

Chronic Toxicity, (Carcinogenicity) Category 2

Chronic hazards to the aquatic environment, Category 3



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### Potential Health Effects

#### Eye:

Causes eye irritation.

#### Skin:

Irritating to the mouth, throat and stomach. May cause nausea, vomiting, pain and stomach upset (e.g. diarrhea). Can cause dizziness, faintness, headache and incoordination. Ingestion or inhalation of Nickel has been associated with asthma-like allergic symptoms. Causes skin irritation.

#### Ingestion:

Irritating to the mouth, throat and stomach. May cause nausea, vomiting, pain and stomach upset (e.g. diarrhea). Can cause dizziness, faintness, headache and incoordination. Ingestion or inhalation of Nickel has been associated with asthma-like allergic symptoms.

May be fatal if swallowed and enters airways.

If swallowed, immediately call a poison control center or physician. Do NOT induce vomiting.

#### Inhalation:

Dizziness, breathing difficulty, headaches & loss of coordination. Ingestion or inhalation of Nickel has been associated with asthma-like allergic symptoms. Can cause skin ("nickel itch") and respiratory sensitization.

Nickel dusts should be regarded as carcinogenic. May cause drowsiness or dizziness.

### Chronic (Cancer) Information:

Contains Nickel and Nickel Oxide. Nickel is listed as a 2B carcinogen by the IARC, and as a carcinogen by the NTP.

Nickel Oxide is listed as a 1 carcinogen by the IARC and as a carcinogen by the NTP. Nickel dusts should be regarded as carcinogenic. Nickel can affect the heart, liver, kidneys, and central nervous system. Nickel compounds have been shown to be mutagenic in some assays, as well as cause fetotoxicity.

IARC: A component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: A component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

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potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: A component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:  
INFORMATION NOT AVAILABLE.

Reproduction Information:

Contains toluene, which may harm the developing fetus if a pregnant woman is overexposed. Toluene may affect the liver and kidneys.

Aggravation of Pre-Existing Conditions:  
Dermatitis or other skin conditions.

### **3. Composition/Information on Ingredients**

Component	CAS#	% by Wt.
*#+ NICKEL	7440-02-0	47.511
ACGIH: 1.0 MG/M3 TWA		
OSHA: 1.0 MG/M3 TWA		
METHYL ETHYL KETONE	78-93-3	22
ACGIH: 200 PPM TWA		
OSHA: 200 PPM TWA		
*#+ TOLUENE	108-88-3	7
ACGIH TLV: 50 PPM TWA (SKIN)		
ACGIH TLV: 150 PPM STEL (SKIN)		
OSHA PEL: 200 PPM TWA		
OSHA PEL: 300 PPM CEILING		
DIISOBUTYL KETONE	108-83-8	5
ACGIH TLV: 25 PPM TWA		
OSHA PEL: 50 PPM TWA		
OSHA VPEL: 25 PPM TWA		
P-O-E LAURYL ETHER PHOSPHATE	39464-66-9	1
NOT ESTABLISHED, CORROSIVE		
NICKEL CARBIDE	12710-36-0	.776
ACGIH: 1.0 MG/M3 TWA		
OSHA: 1.0 MG/M3 TWA		
NICKEL OXIDE	1313-99-1	.146
ACGIH TLV: 0.1 PPM TWA (INSOLUBLE COMPOUNDS, AS Ni)		
ACGIH TLV: 0.2 Mg/M3 TWA (SOLUBLE COMPOUNDS, AS Ni)		
OSHA PEL: 1.0 MG/M3 TWA (INSOLUBLE COMPOUNDS, AS Ni)		
OSHA PEL: 0.1 MG/M3 TWA (SOLUBLE COMPOUNDS, AS Ni)		

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### **4. First Aid Measures**

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#### 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.

#### Skin:

If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

#### Ingestion:

May be fatal if swallowed and enters airways.

If swallowed: Immediately call a poison center/physician.

Do NOT induce vomiting.

#### Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison control center/get medical attention if you feel unwell.

#### Note to Physicians:

Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy. Use calcium EDTA intravenously or BAL intramuscularly to remove absorbed nickel from the body.

Never give EDTA by mouth. Aspiration hazard - do not induce vomiting

### **5. Fire Fighting Measures**

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#### Flammable Properties:

Flash Point: 20 F

Method:

Explosive Limits:

Lower explosive limit: 0.8

Upper explosive limit: 11.0

#### Autoignition Temperature:

INFORMATION NOT AVAILABLE.

#### Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.

#### Extinguishing Media:

Dry chemical, CO2, Halon, Foam

#### Firefighting Procedures:

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Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

## **6. Accidental Release Measures**

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Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:

INFORMATION NOT AVAILABLE.

Methods/Materials for Containment and Cleaning Up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/state/federal regulations.

## **7. Handling and Storage**

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Handling:

Keep away from heat, sparks, open flames, hot surfaces. NO SMOKING. Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/processing equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Storage:

Prevent unauthorized access.

Store in a well ventilated place.

Keep container tightly closed.

Keep cool.

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### **8. Exposure Controls/Personal Protection**

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Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

Ventilation should be explosion proof.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be

worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance

with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

Skin Protection:

Wear impervious gloves to prevent skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

Eye Protection:

Chemical safety goggles or glasses with side shields.

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### **9. Physical and Chemical Properties**

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Boiling Point: 175 F

Melting Point:

INFORMATION NOT AVAILABLE.

Freezing Point: n/a

Vapor Pressure:

Information not available for mixture

Vapor Density:

HEAVIER THAN AIR

Solubility in Water:

NEGLIGIBLE

Evaporation Rate: SLOWER THAN ETHER

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Specific Gravity: 1.671

Coating VOC: 4.67 lb/gl

Material VOC: 4.67 lb/gl

Odor:

Mild solvent odor.

Appearance:

Liquid.

Partition Coefficient:

INFORMATION NOT AVAILABLE.

### **10. Stability and Reactivity**

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Chemical Stability (Conditions to Avoid):

Stable under normal storage/use conditions.

Incompatibility:

Avoid strong oxidizing agents, acids and alkalies.

Hazardous Decomposition Products:

INFORMATION NOT AVAILABLE.

Hazardous Polymerization:

Will not occur under normal conditions.

### **11. Toxicological Information**

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Eye Irritation/Damage:

Component 108-88-3:

Mild eye irritation, Category 2B

Component 110-43-0:

Mild eye irritation, Category 2b

Component 7440-02-0:

Mechanical eye irritation only.

Skin Irritation/Damage:

Component 108-88-3:

Moderate skin irritation, Category 2

LD50: 12124 mg/kg, rabbit

Component 110-43-0:

LD50: >2000 mg/kg, rat. Category 5

Component 7440-02-0:

LD50: No data

May cause an allergic skin reaction. Repeated and prolonged exposure to nickel can cause a type of dermatitis specifically referred to as "nickel itch".

Acute Oral Toxicity:

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Component 108-88-3:

LD50: 2600 mg/kg, rat. Category 5

Component 110-43-0:

LD50: 1670 mg/kg, rat. Category 4

Component 7440-02-0:

LD50: 200 mg/kg, rat. Category 3 (flake); >2000 mg/kg, not categorized (dust).

Acute Inhalation Toxicity:

Component 108-88-3:

LD50: 8,000 mg/kg, rat. Category 5

Component 110-43-0:

LD50: >16.7 mg/kg, rat. Category 4

Component 7440-02-0:

LC50: No data

Respiratory/Skin Sensitization:

Component 108-88-3:

No evidence of respiratory or skin sensitization.

Component 110-43-0:

No evidence of respiratory or skin sensitization.

Component 7440-02-0:

May cause an allergic skin reaction.

Carcinogenicity:

Component 78-93-3:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 110-43-0:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 7440-02-0:

Listed by IARC as a group 2B carcinogen (possibly carcinogenic to humans).

Listed by NTP as a substance reasonably

anticipated to be a human carcinogen. (Inhalation), GHS Category 2.

Reproductive Toxicity:

Component 108-88-3:

Known human reproductive toxicant; Category 1A

Component 110-43-0:

No evidence of human reproductive toxicity.

Component 7440-02-0

No data.

Germ Cell Mutagenicity:

Component 108-88-3:

No data



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Component 110-43-0:

No data

Component 7440-02-0:

No data

Aspiration Toxicity:

Component 108-88-3:

Aspiration Hazard; Category 1

Component 110-43-0:

Not classified as an Aspiration Hazard.

Component 7440-02-0

Not classified as an Aspiration Hazard.

STOT-single exposure

Component 108-88-3:

No data

Component 110-43-0:

No data

Component 7440-02-0:

No data

STOT-repeated exposure

Component 108-88-3:

No data

Component 110-43-0:

No data

Component 7440-02-0:

Animal studies (rat) show that repeated dose inhalation of nickel damages the lung. Chronic inflammation, lung fibrosis, and accumulation of nickel particles were observed.

Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

## **12. Ecological Information**

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Environmental Toxicity:

Component 108-88-3:

LC50: 5.8 mg/l (fish); EC50: 6 mg/l (daphnia)

Component 110-43-0:

LC50: 131 mg/l (fish); EC50: >90.1 mg/l (daphnia); EC50: 98.2 mg/l (algae);

EC50: <10 mg/l (bacteria)

Component 7440-02-0 (dust):

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LC50: >100 mg/l (fish); EC50: >100 mg/l (daphnia); EC50: 100 mg/l (algae); EC50: 250 mg/l (bacteria)

### Persistence & degradability:

Component 108-88-3:

No Data

Component 110-43-0:

Readily biodegradable

Component 7440-02-0:

Methods for determining biodegradability are not applicable to inorganic substances.

### Bioaccumulative potential:

Component 108-88-3:

Not expected to bioaccumulate

Component 110-43-0:

No Data

Component 7440-02-0:

No data

### Mobility in soil:

Component 108-88-3:

No data

Component 110-43-0:

No data

Component 7440-02-0:

No data

### Other Adverse Ecological Effects:

Component 108-88-3:

Toxic to aquatic life with long lasting results.

Component 7440-02-0:

May cause long term adverse effects in the aquatic environment. Nickel is extremely toxic to citrus plants.

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## **13. Disposal Considerations**

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### Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws. When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability. The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Federal Regulations may apply to empty container. State and/or local regulations may be different. Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility. Be sure to contact the appropriate government environmental agencies if further guidance is required.

## **14. Transport Information**

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Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO)  
Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):  
DOT (USA) Shipping Name: Paint  
UN/NA ID No: UN1263  
Hazard Class: Class 3 (IATA/49CFR)  
Packing Group: II

### Environmental Hazards:

INFORMATION NOT AVAILABLE.

### Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)

### Special Precautions for User:

INFORMATION NOT AVAILABLE.

## **15. Regulatory Information**

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### U.S. Federal Regulations:

TSCA: All components of this material are on the US TSCA 8(b) Inventory or are exempt from listing.

### OSHA:

This product is hazardous under OSHA's Hazard Communication Std. Not regarded as a health hazard under current legislation.

CERCLA: SARA Hazard Category:

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INFORMATION NOT AVAILABLE.

Section 313:

"\*" Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:

"#" Indicates a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

"+" Indicates a Clean Air Act Hazardous Air Pollutant (HAP).

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

## **16. Other Information**

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Date Revised: 06/05/15

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate.

However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards

which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No

representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any

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other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet