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Product Code QSW NC 601 No Clean Colophony Free Solder wire

Trade Name Delta ™ Solder Wire

Manufacturer Qualitek (Europe) Ltd Unit 9 Apex Court, Bassendale Road,

Bromborough, Wirral CH62 3RE. UK.

Fax 44(0)151-346-1408Tel 44(0)151-334-0888

Supplier / Importer

2. Composition and information on Components

Components	Content	EC No	CAS	Hazard	Risk
Tin Lead Silver	60 - 63 % * 36 - 37% * 2% *		7440-31-5 7439-92-1 7440-22-4		R21/22
Other	<2%		Products r	ot classified- see notes on	soldering fumes

^{*} Typically 98% of the wire will be constituted by metal alloy. Percentage weights of metals will vary according to the alloy type - see product label for details.

3. Hazard Identification

Main Hazards	Irritant May cause sensitisation by skin contact Irritating to eyes, respiratory system and skin
Health Effects Inhalation - Ingestion	Inhalation of the fumes or ingestion may cause headache, nausea, muscular pain. And Irritation of the eyes and nose. There is the risk of accumulative affects through repeated ingestion of lead.
Chronic (Prolonged effects)	Anaemia, insomnia, weakness, constipation, nausea and abdominal pain due to ingestion. Skin rash, damage of mucous membrane due to skin exposure and inhalation.

4. First Aid Measures

First Aid - Eyes	Immediately flush the eyes with water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
First Aid - Skin	Wash thoroughly with soap and water and remove all contaminated clothing as washing proceeds. Apply suitable lotion to prevent dryness. Seek medical attention.
First Aid - Inhalation	Remove person to fresh air and keep subject warm and at rest. Seek medical attention.
First Aid - Ingestion	Wash out mouth with water. Do not induce vomiting. Keep subject warm and at rest. Seek medical attention.





Protective Equipment for Fire Fighting	Wear full protective clothing and use breathing apparatus.
Special Hazards	Dangerous when exposed to heat of flame. Containers may explode in heat of fire.
Extinguishing media	Use Carbon Dioxide, Dry chemical, Alcohol resistant foam. Beware of the possibility of re-ignition.

o. Accidental Release Weasures		
Personal Precautions	Wear appropriate protective clothing especially gloves. Eliminate sources of ignition. Avoid breathing vapour and contact with skin.	
Environmental Precautions	Dispose of via a recognised waste disposal contractor	
Spillages	n/a	

7. Handling and Storage	
Handling	Use in well ventilated area. Avoid breathing in soldering fumes. Avoid contact with eyes, skin and clothing Always wear gloves or wash hands after handling solder wire. Cardboard boxes containing multiple packages may weigh up to 30Kgs
Storage	Storage area should be cool and dry.

8. Exposure Controls - Personal Protection

Occupational Exposure Limits	Long-term exposure limit	Short term exposure limit
Lead	(8 Hour TWA)	(15 minute)
	0.15mg/m³	

Engineering Control Measures	Ensure work area is well ventilated and equipment properly exhausted. Work area should be arranged so as not expose the operator to unnecessary fumes.
Respiratory Protection	Respiratory protection if there is a risk of exposure to long periods breathing fumes.
Eye Protection	Suitable eye protection should be worn to prevent flux spatter entering eyes.
Skin Protection	Suitable gloves or wash hands after use .
Foot Protection	Not necessary unless handling cartons holding multiple quantities of containers



9. Physical and Chemical Properties

Form Light grey metal wire
Appearance Metallic-grey
Odour None

Boiling point 1380 Deg C (vehicle)

Melting point 183 Deg C (for Sn63/Pb37 alloy)

Flash Point n/a
Auto Ignition Temperature n/a

 Flammability limits in air
 Lower:
 n/a

 Upper:
 n/a

 Explosion Limits
 Lower:
 n/a

 Upper:
 n/a

Vapour pressure n/a
Vapour Density n/a
Evaporation Rate n/a

Specific Gravity varies according to composition **Solubility** Partially soluble in water (vehicle)

10. Stability and Reactivity

 Stability
 Stable under normal conditions

 Conditions to avoid
 none

 Materials to avoid
 Strong acids, strong oxidising agents

 Hazardous Decomposition Products
 May release toxic vapours / gases such as Carbon Monoxide, Carbon Dioxide

11. Toxicological Information

Basis of Assessment Information given is based on product data

 Acute Toxicity - Oral
 LD50 > 3000 mg/kg (lead)

 Acute Toxicity - Dermal
 LD50 > 3000 mg/kg

 Acute Toxicity - Inhalation
 LD50 > 5mg/L

 Eye Irritation
 Slight irritant

Skin Irritation
Respiratory Irritation
Skin sensitisation
Respiratory Irritation
Skin sensitisation
May cause skin sensitisation

(Sub) Chronic Toxicity Repeated exposure causes liver damage

Human effects Repeated exposure can lead to allergic contact dermatitis.

12. Ecological Information

Mobility
The product is most likely to separate in water

Degradability
Solvent vehicle may degrade but alloy will not

Bio-accumulation
Possibility of accumulation of metallic alloys.

Ecotoxicity

13. Disposal

Product Product and spent containers should be disposed of by registered waste disposal contractor.

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14. Transport Information

UN Number, Shipping name and Class Proper Shipping Name

UN Class / Packing Group Packing Symbol

not classified

n/a not n/a

n/a

Trem Card Number none

15. Regulatory Information

Labelling Information

Irritant



Risk Phrases R21/22 : Harmful if swallowed and by inhalation

R36/37/38 : Irritating to eyes, respiratory system and skin R43 : May cause sensitisation by skin contact

Safety Phrases

S23 :Do not breathe soldering fumes. S24/25 :Avoid contact with skin and eyes.

None

EC Annex 1 Classification None

Regulations / References

Refer to the requirements of all relevant local regulations. For the United Kingdom, see Control of Substances Hazardous to Health Regulations (COSHH), the Health

and Safety at Work Act (HSWA) and the Carriage of Dangerous Goods by Road

and Rail Regulations 1994.

16. Other Information

Application See technical data sheet for application information