

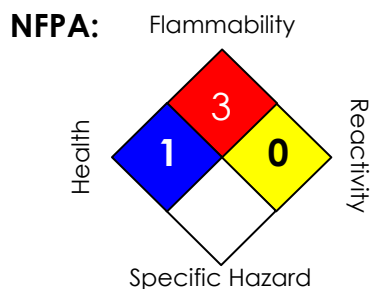
## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

**HMIS III:**

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL</b>	<b>0</b>

0 = Insignificant, 1 = Slight,  
2 = Moderate, 3 = High, 4 = Extreme

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Commercial Product Name	: BRUSHABLE ELECTRICAL TAPE 113.4 g
Product code	: 893.198010
MSDS-Identcode	: 10035616
Product Use Description	: Sealant
Company	: Würth Canada Limited 6330 Tomken Road Mississauga Ontario L5T 1N2 Canada
Telephone	: +1 (905) 564 6225
Telefax	: +1 (905) 564 3671
Responsible/issuing person	: prodsafe@wuerth.com
Emergency telephone number	: In case of emergency please contact: CANUTEC (5:00 pm - 8:00 am): +1 (613) 996 6666 WÜRTH CANADA LIMITED (8:00 am - 5:00 pm): +1 (905) 564 6225

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

**Regulatory status** : This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

**Signal Word** : DANGER  
Form : viscous  
Colour : various

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

Odour : characteristic  
Odour - Control : no data available  
parameters  
Hazard Summary : May cause birth defects.  
May cause cancer.  
May cause fire.  
  
Irritant  
Flammable.

**Potential Health Effects**

Eyes : Causes eye irritation.

Ingestion : Harmful or fatal if swallowed.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation : Harmful if inhaled.  
May cause drowsiness or dizziness.  
May cause respiratory tract irritation.

Skin : May cause skin irritation.  
Prolonged or repeated contact may dry skin and cause irritation.

Target Organs : Eyes  
Skin  
Nervous system  
Reproductive organs  
Lungs  
Blood

ACGIH : ethylbenzene (CAS-No.: 100-41-4)

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

IARC : ethylbenzene (CAS-No.: 100-41-4)  
low boiling point naphtha (CAS-No.: 64742-89-8)

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

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.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Weight percent- Weight percent
heptane [and isomers]	142-82-5	>= 12.5 - < 15
xylene	1330-20-7	>= 12.5 - < 15
butanone	78-93-3	>= 7 - < 10
ethylbenzene	100-41-4	>= 3 - < 5

**SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

Inhalation : If breathed in, move person into fresh air. Call a physician immediately. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact : Call a physician immediately. In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners.

Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

**SECTION 5. FIREFIGHTING MEASURES**

- Form : viscous  
Flash point : -7 °C (19 °F)
- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.  
Hazardous decomposition products may be formed under fire conditions (see section 10).  
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
In the event of fire and/or explosion do not breathe fumes.  
Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately.  
This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Pay attention to flashback.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Refer to protective measures listed in sections 7 and 8.

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

- Use personal protective equipment.  
Remove all sources of ignition.  
Avoid contact with skin and eyes.  
Ensure adequate ventilation, especially in confined areas.  
Immediately evacuate personnel to safe areas.  
Avoid inhalation of vapour or mist.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.  
Clean contaminated surface thoroughly.

---

**SECTION 7. HANDLING AND STORAGE****Handling**

- Handling : For personal protection see section 8.  
Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.  
Take precautionary measures against static discharges.  
Use appropriate container to avoid environmental contamination.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.  
Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.  
Keep away from heat and sources of ignition.  
Do not smoke.  
No sparking tools should be used.  
Electrical equipment should be protected to the

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

appropriate standard.

Dust explosion class : not applicable

**Storage**

 Requirements for storage areas and containers : Store in original container.  
 Keep containers tightly closed in a dry, cool and well-ventilated place.  
 Keep away from heat.  
 Keep away from direct sunlight.

 Advice on common storage : Incompatible with acids.  
 Incompatible with oxidizing agents.  
 Avoid amines.

 Keep away from food, drink and animal feedingstuffs.  
 Do not store together with oxidizing and self-igniting products.

Storage temperature : &lt; 50 °C (&lt; 122 °F)

Other data : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Exposure Guidelines**

Components	CAS-No.	List	Type:	Value	Update
heptane [and isomers]	142-82-5	CA BC OEL	TWA	400 ppm	2006-11-29
		CA BC OEL	STEL	500 ppm	2006-11-29
		CA QC OEL	TWAEV	400 ppm 1,640 mg/m3	2006-12-29
		CA QC OEL	STEV	500 ppm 2,050 mg/m3	2006-12-29
		CA AB OEL	TWA	400 ppm 1,640 mg/m3	2009-04-30
		CA AB OEL	STEL	500 ppm 2,050 mg/m3	2009-04-30
xylene	1330-20-7	CA AB OEL	TWA	100 ppm 434 mg/m3	2009-04-30
		CA AB OEL	STEL	150 ppm 651 mg/m3	2009-04-30
		CA QC OEL	TWAEV	100 ppm 434 mg/m3	2008-02-23

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

		CA QC OEL	STEV	150 ppm 651 mg/m3	2008-02-23
		CA BC OEL	TWA	100 ppm	2007-07-06
		CA BC OEL	STEL	150 ppm	2007-07-06
butanone	78-93-3	CA AB OEL	TWA	200 ppm 590 mg/m3	2007-01-01
		CA AB OEL	STEL	300 ppm 885 mg/m3	2007-01-01
		CA BC OEL	TWA	50 ppm	2006-11-29
		CA BC OEL	STEL	100 ppm	2006-11-29
		CA QC OEL	TWAEV	50 ppm 150 mg/m3	2006-12-29
		CA QC OEL	STEV	100 ppm 300 mg/m3	2006-12-29
ethylbenzene	100-41-4	CA AB OEL	TWA	100 ppm 434 mg/m3	2007-01-01
		CA AB OEL	STEL	125 ppm 543 mg/m3	2007-01-01
		CA BC OEL	TWA	20 ppm	2011-09-15
		CA QC OEL	TWAEV	100 ppm 434 mg/m3	2006-12-29
		CA QC OEL	STEV	125 ppm 543 mg/m3	2006-12-29

- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : Tightly fitting safety goggles
- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : Flame retardant antistatic protective clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Respirator with filter type A
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
General industrial hygiene practice.  
Avoid breathing vapours, mist or gas.

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

Avoid contact with skin, eyes and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Follow the skin protection plan.  
Wash contaminated clothing before re-use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: viscous
Colour	: various
Odour	: characteristic
Flash point	: -7 °C (19 °F)
Boiling point/boiling range	: 141 °C (286 °F)
Vapour pressure	: 104 hPa at 20 °C (68 °F)
Density	: 0.83 g/cm <sup>3</sup>
Water solubility	: no data available
Viscosity, kinematic	: > 7 mm <sup>2</sup> /s at 40 °C (104 °F)
Volatile organic compounds (VOC) content	: 74.5 %

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Strong acids Oxidizing agents Amines
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide
Hazardous reactions	: Note: No decomposition if stored and applied as directed.  Vapours may form explosive mixtures with air.



## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

**SECTION 11. TOXICOLOGICAL INFORMATION**

Carcinogenicity : No data is available on the product itself.  
Reproductive toxicity : No data is available on the product itself.  
Teratogenicity : No data is available on the product itself.  
Further information : Components of the product may affect the nervous system.  
Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

**Component:**

heptane [and isomers]

142-82-5

Acute oral toxicity: LD50 rat

Dose: &gt; 5,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 rabbit

Dose: &gt; 2,000 mg/kg

Method: OECD Test Guideline 402

Acute inhalation toxicity: LC50 rat

Dose: &gt; 29.29 mg/l/Exposure time: 4 h

Method: OECD Test Guideline 403

Skin irritation: rabbit

Result: irritating

Method: OECD Test Guideline 404

Eye irritation: rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

xylene

1330-20-7

Acute dermal toxicity: LD50

Dose: &gt; 1,000 - 2,000 mg/kg

Acute inhalation toxicity: LC50

Dose: &gt; 10 - 20 mg/l/Exposure time: 4 h

Skin irritation: Result: Severe skin irritation

butanone

78-93-3

Skin irritation: Result: Repeated exposure may cause skin dryness or cracking.Eye irritation: Result: Irritation to eyes, reversing after 7 to

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

21 days.

ethylbenzene

100-41-4

Acute inhalation toxicity: LC50

Dose: &gt; 10 - 20 mg/l/Exposure time: 4 h

**SECTION 12. ECOLOGICAL INFORMATION**Adsorbed organic bound : not included  
halogens (AOX)Volatile organic : 74.5 %  
compounds (VOC)  
contentAdditional ecological : The product should not be allowed to enter drains, water  
information courses or the soil.**Component:**

heptane [and isomers]

142-82-5

Toxicity to fish:

LC50

Species:

Dose: 5.738 mg/l

Exposure time: 96 h

Calculation

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 1.5 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species:

Dose: 4.338 mg/l

Exposure time: 72 h

Calculation

Toxicity to algae:

NOEC

Species:

Dose: 0.97 mg/l

Exposure time: 72 h

Calculation

Toxicity to bacteria:

EC50

Species: Bacteria

Dose: 22.6 mg/l

Exposure time: 48 h

Calculation

Toxicity to bacteria:

NOEC

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

Species: Bacteria  
Dose: 5.057 mg/l  
Exposure time: 48 h  
Calculation

**SECTION 13. DISPOSAL CONSIDERATIONS**

Adequate disposal : In accordance with local and national regulations.  
Do not dispose of waste into sewer.  
This material and its container must be disposed of as hazardous waste.  
Do not dispose of together with household waste.

**SECTION 14. TRANSPORT INFORMATION****DOT 49 CFR**

ID No : UN 1139  
Proper shipping name : Coating solution  
Class : 3  
Packing group : II  
Labels : 3  
Emergency Response : 127  
Guidebook Number

**TDGR**

ID No : UN 1139  
Proper shipping name : COATING SOLUTION  
Class : 3  
Packing group : II  
Labels : 3

**ICAO/IATA-DGR**

ID No : UN 1139  
Proper shipping name : Coating solution  
Class : 3  
Packaging group : II  
ICAO-Labels : 3  
Packing instruction (cargo aircraft) : 364  
Packing instruction : 353  
(passenger aircraft)  
Packing instruction : Y341  
(passenger aircraft)

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

Environmentally hazardous : no

**IMDG-Code**

ID No : UN 1139  
Description of the goods : COATING SOLUTION  
(low boiling point naphtha, n-heptane)  
Class : 3  
Packaging group : II  
IMDG-Labels : 3  
EmS Number 1 : F-E  
EmS Number 2 : S-E  
Marine pollutant : yes

**SECTION 15. REGULATORY INFORMATION**

**WHMIS Classification** : B2 Flammable liquid  
D2A Very Toxic Material Causing Other Toxic Effects  
D2B Toxic Material Causing Other Toxic Effects  
Flammable liquid  
Teratogen  
Carcinogen  
Moderate skin irritant  
Moderate eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**SECTION 16. OTHER INFORMATION****Further information**

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.

Prepared by : SAP Business Compliance Services GmbH  
Birlenbacher Str. 19  
D-57078 Siegen  
Germany

## Material Safety Data Sheet

**BRUSHABLE ELECTRICAL TAPE 113.4 g**

Version 1.5

Revision Date 04/26/2013

Print Date 05/03/2013

Revision Date : 04/26/2013 Telephone: +49-(0)271-88072-0

---