

SAFETY DATA SHEET

Finished Product



Date-Issued: 12/10/2002
SDS Ref. No: SW01-5 through SW04-50
Date-Revised: 6/24/2015
Revision No: 002

NTE Solder Wick SW01-5 through SW04-50

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Brand Name	NTE Solder Wick
Product Description:	Desoldering Flux coated braid - generic
Product Code	SW01-5 through SW04-50
Marketer Contact Information:	NTE Electronics, Inc. 44 Farrand Street Bloomfield, NJ 07003 (973) 748-5089
Emergency Phone:	1-800-631-1250 8:00 am – 5:00 pm EST

SECTION 2. HAZARDS IDENTIFICATION

OSHS/HCS status:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture:	Not classified Percentage of the mixture consisting of the ingredient(s) of unknown toxicity: 100%
GHS Label Elements	
Signal Word:	No signal word
Hazard Statements:	No known significant effects or critical hazards
Precautionary Statements	
Prevention:	Not Applicable
Response:	Not Applicable
Storage:	Not Applicable
Disposal:	Not Applicable
Hazards not otherwise classified:	Exposure to soldering fumes when the product used in the desoldering process

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

Substance/mixture:	Mixture
Other Means of Identification	Sizes: 0.9mm/1.4mm/1.9mm/2.5mm/3.3mm/4.9mm/0.9mm/1.4mm/1.9mm/2.5mm/ 3.3mm/4.9mm/0.63mm/4.9mm No Clean flux is a synthetic (non-colophony) flux. Per J-STD-004 Section 3.2, it is classified as REL0. Per British Std. EN 29454-1: 1993 and ISO9454-1: 1990, the No Clean flux has a classification of 1.2.3.B

CAS Number/other identifiers	
CAS Number:	Not Applicable
Product Code	SW01-5 through SW04-50

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS (Cont'd)

Ingredient Name	%	CAS Number
Pentaerythritol tetrabenzoate	0.5 – 2	4196-86-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST-AID MEASURES

Description of necessary first aid measures

Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin Contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Eye Contact:	May cause eye irritation
Inhalation:	Soldering Fumes
Skin Contact:	May cause skin irritation
Ingestion:	Harmful if swallowed

Over-exposure signs/symptoms

Eye Contact:	Adverse symptoms may include the following: irritation, redness, watering
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation
Skin Contact:	Adverse symptoms may include the following: irritation, redness
Ingestion:	Adverse symptoms may include the following: Ingestion

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No special treatment.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known.
Specific hazards arising from the chemical:	Fire water contaminated with this material must be contained and prevented. From being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small Spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large Spill	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8). Avoid release to the environment.
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SECTION 7. HANDLING AND STORAGE (Cont'd)

Precautions for safe handling

Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
---	--

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational exposure limits:	None
Appropriate engineering controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements or environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State:	Solid. [Metal]
Color:	Various
Odor:	Odorless
Odor threshold:	Not available
pH:	Not available
Melting point:	Not available
Boiling point:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas)	Not available
Lower & upper explosive (flammable) limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Not available
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	This product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No Specific data.
Incompatible materials:	No Specific data.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Pentaerythritol Tetrabenzoate	LD50 Oral	Rat	1158 mg/kg	-

Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely routes of exposure:	Not available

Potential acute health effects

Eye Contact:	May cause eye irritation.
Inhalation:	Soldering fumes.
Skin contact:	May cause skin irritation.
Ingestion:	Harmful if swallowed.

SECTION 11. TOXICOLOGICAL INFORMATION (Cont'd)

Symptoms related to the physical, chemical and toxicological characteristics

Eye Contact:	Adverse symptoms may include the following: irritation, redness, watering
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation
Skin contact:	Adverse symptoms may include the following: irritation, redness
Ingestion:	Adverse symptoms may include the following: Ingestion

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects:	Caution: exposure to this material may cause certain sensitive individuals to develop eczema and/or asthma. May cause sensitization by inhalation and skin contact. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.
Potential delayed effects:	Skin sensitization

Long term exposure

Potential immediate effects:	Caution: exposure to this material may cause certain sensitive individuals to develop eczema and/or asthma. May cause sensitization by inhalation and skin contact. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Irritating to eyes, respiratory system and skin.
Potential delayed effects:	Skin sensitization

Potential chronic health effects:

General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2316 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:	Not available
Persistence and degradability:	Not available
Bioaccumulative potential:	Not available
Mobility in soil (soil/water partition coefficient (K_{oc}):	Not available
Other adverse effects:	No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
--------------------------	--

SECTION 14. TRANSPORT INFORMATION

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
U.N.proper shipping name	Wire	Wire	Wire	Wire	Wire	Wire
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	Reportable quantity 5263.2 lbs / 2389.5 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	-	-	-	-	-

Special precautions for user:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not Available

SECTION 15. REGULATORY INFORMATION

U.S Federal regulations:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined. Clean Water Act (CWA) 307: copper
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):	Listed
Clean Air Act Section 602 Class I Substances:	Not Listed
Clean Air Act Section Class II Substances:	Not Listed
DEA List I Chemicals (Precursor Chemicals):	Not Listed
DEA List II Chemicals (Essential Chemicals):	Not Listed
SARA 302/304 Composition/information on ingredients:	No products were found.
SARA 304 RQ	Not Applicable
SARA 311/312 Classification:	Not Applicable

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Pentaerythritol tetrabenzoate	0.5 - 2	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R – Reporting requirements	Copper	7440-50-8	90 - 100
Supplier notification	Copper	7440-50-8	90 - 100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts:	The following components are listed: Copper
New York:	The following components are listed: Copper
New Jersey:	The following components are listed: Copper
Pennsylvania:	The following components are listed: Copper Fume

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals	Not listed.
Montreal Protocol (Annexes A, B, C, E)	Not listed.
Stockholm Convention on Persistent Organic Pollutants	Not listed.
Rotterdam Convention on Prior Inform Consent (PIC)	Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals	Not listed.

International lists

National Inventory

Australia	All components are listed or exempted.
Canada	All components are listed or exempted.
China	All components are listed or exempted.
Europe	All components are listed or exempted.
Japan	Not determined.
Malaysia	Not determined.
New Zealand	All components are listed or exempted.
Philippines	All components are listed or exempted.
Republic of Korea	Not determined.
Taiwan	Not determined.

SECTION 16. OTHER INFORMATION

Hazardous Material Information System (U.S.A)

Health	1
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.

1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations:

ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IMDG	International Maritime Dangerous Goods
LogPow	logarithm of the octanol/water partition coefficient
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN	United Nations

This information above is believed to be accurate and represents the best information currently available to us. However, neither NTE nor any of its subsidiaries make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.