



Safety Data Sheet

SDS ID: Stock Code TWF

Revision date: February 14, 2023

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: TALON Water Soluble Paste Flux
Synonyms: None
Chemical family: Soft Soldering Flux
Producer: J.C. Whitlam Manufacturing Company
200 West Walnut Street
P.O. Box 380
Wadsworth, Ohio 44282-0380
www.jcwhitlam.com

Telephone: 330-334-2524 Available during normal business hours

Emergency: 330-334-2524 Available during normal business hours

Section 2. HAZARDS IDENTIFICATION

GHS Hazard and precautionary statements

WARNING — Irritating to eyes, R36
Irritating to respiratory system, R37
Irritating to skin, R38



IRRITANT

Precautionary Statements:

P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P280: Wear protective gloves and clothing and eye and face protection. P301+P312: IF SWALLOWED, Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. P337+P313: If eye irritation persists get medical advice/attention. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P309+P311: If exposed or you feel unwell, call a Poison Center or doctor/physician.

Ingestion: In case of accident or if fell unwell call for medical advice immediately.

Skin contact: Wear suitable protective clothing. Immediately remove contaminated clothing.

Eye contact: In case of eye contact, rinse thoroughly and get medical attention. Wear protective eye and face protection.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Material information:

Name	CAS No.	Weight %
Zinc Chloride	7646-85-7	1-3

**Note: The above weight percentages are represented in ranges as estimates. Due to variation among production batches, component percentages may vary.*

Section 4. FIRST AID MEASURES

Inhalation: Remove to fresh air.

Skin contact: Wash thoroughly with water.

Ingestion: If patient is fully conscious, give large amounts of water. Obtain immediate medical attention. Do NOT induce vomiting.

Eye contact: Check for and remove any contact lenses. Immediately consult physician after flushing eyes with tepid water for 15 minutes.

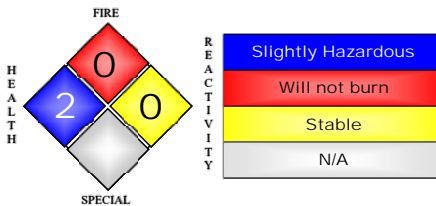
Section 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Dry chemical, CO₂ foam.

Specific hazards: Will release small amounts of HCl upon decomposition.

Special protective equipment for firefighters: Normal cautions when dealing with chemicals.

	NFPA rating:	HMIS rating:
Health:	2	2
Flammability:	0	0
Instability/reactivity:	0	0
Other:	N/A	H (PPE)



Section 6. ACCIDENTAL RELEASE MEASURES

Large Spill: First neutralize with soda ash or sodium bicarbonate. Dilute with water.

Methods for Containment and Clean up: Dispose of in accordance with EPA regulations.

Section 7. HANDLING AND STORAGE

Handling: Safe precautionary practices to avoid spills and exposure to skin and fumes.

Storage: Store in plastic containers in cool area, away from heat.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Name	CAS No.	ACGIH® TLV® Exposure Limits:	Federal OSHA PELs	OSHA PELs 1989 ^c
Zinc Chloride	7646-85-7	N/A	N/A	1 mg/m ³

Engineering measures: Local exhaust ventilation is preferable. Explosion proof.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: NIOSH approved respirator.

Commented [M1]:

Skin and body protection: NIOSH approved protective gloves and a rubber apron.

Eye protection: Safety glasses.

Hygiene measures: Avoid repeated or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove contaminated clothing and laundry before reuse.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White paste
Physical state (solid/liquid/gas):	Paste
Substance type (pure/mixture):	Mixture
Color:	White
Odor:	Odorless
Molecular weight:	Not Available
pH:	Not Available
Boiling point/range (5-95%):	220°F (104°C)
Melting point/range:	140°F (60°C)
Decomposition temperature:	Not Available
Specific gravity:	0.97
Vapor density:	(AIR = 1) N/A
Vapor pressure:	Not Available
Evaporation rate (Butyl acetate= 1):	0.6
Flash point, method used:	Not Available
Water solubility:	Unlimited
VOC Content:	0%
Auto-ignition temperature:	None
Flammable limits in air — lower (%):	Not Available
Flammable limits in air — upper (%):	Not Available

Section 10. STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	Stable under recommended storage conditions.
Possibly hazardous reactions:	N/A
Conditions to avoid:	Excessive heat or cold. Metals.

Incompatible Materials: Alkaline, strong oxidizing or reducing materials, cyanides, or combustible materials.

Hazardous decomposition products: HCl, zinc chloride, zinc oxide, ammonium.

Polymerization: Will not occur.

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Any weakness of the lungs, kidneys or liver will be aggravated.

Product information:

Name	CAS No.	Inhalation:	Dermal:	Oral:
Zinc Chloride	7646-85-7	N/A	N/A	N/A

Chronic toxicity: Overexposure may cause salivation, coughing, choking, chills, weight loss, brittle bones, anemia and stiff joints.

Sensitization: Not known to cause sensitization in humans.

Section 12. ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

Section 13. DISPOSAL CONSIDERATIONS

Cleanup considerations: Dispose of in accordance with EPA regulations.

Section 14. TRANSPORT INFORMATION

Please refer to DOT regulation 49 CFR 172.101: Non-Hazardous

Transport information: N/A

Hazardous Materials Description: (DOT and IATA):

UN/identification no.: Not Applicable
Proper shipping name: Not Applicable
Hazard class: Not Applicable
Packing group: Not Applicable
DOT reportable quantity (lbs.): Not Applicable

Section 15. REGULATORY INFORMATION

All components of this product are listed on the U.S. Toxic Substance Control Act Inventory or otherwise comply with TSCA pre-manufacture notification requirements.

This product is RoHS Compliant.

U.S. federal regulatory information:

U.S. RCRA (40 CFR 261) – N/A

State and community right-to-know regulations:

The following component(s) of this material are identified on the regulatory lists below:

U.S. TSCA Chemical inventory Section 8(b)

OSHA — Hazard Communications Standard (29 CFR 1910.1200) – N/A

CERCLA Sections 102a/103 (40 FR 302.4): N/A

Some Components of this product are listed in the following sections of **SARA**:

SARA Title III Section 302 — N/A

SARA Title III Section 304 — N/A

SARA Title III Section 313 — N/A

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21) - N/A

California Proposition 65 Components

N/A

WHMIS (Canada)

N/A

***NOTE:** User must consult with applicable state and local agencies for special specifics, determinations or compliance obligations regarding this product.*

Section 16. OTHER INFORMATION

The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, the J.C. Whitlam Manufacturing Company, Inc., and its related operations or divisions (Whitlam) do not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. Whitlam assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.