

SAFETY DATA SHEET

Hasaconi Water-based Flux WBF4100

SDS #: EFH 22-3/3

Date of Preparation: November 2025

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Hasaconi Water-based Flux WBF4100

Trade Name : Hasaconi WBF4100

1.2 Company's Identification:

Manufacturer's Name and Address : Singapore Asahi Chemical & Solder
Industries Pte Ltd
47 Pandan Road
Singapore 609288

Telephone : (65) 6262-1616

Facsimile : (65) 6261-6311

1.3 Contact Point:

Designation : Chemist

Emergency Telephone Number : (65) 6262-1616

SECTION 2: HAZARD IDENTIFICATION

GHS classification

Acute toxicity

Oral : Category 4

Dermal : Category 5

Inhalation : Category 5

Skin corrosion/irritation : Category 3

Serious eye damage/irritation : Category 2B

GHS label elements



GHS Signal Word:

Warning

GHS Hazard Statement: H302 Harmful if swallowed
H313 May be harmful in contact with skin
H333 May be harmful if inhaled
H316 Causes mild skin irritation
H319 May cause serious eye damage

GHS Precautionary Statement:

Prevention

P233 Keep container tightly closed.
P261 Avoid breathing dust, fume, gas, mist, vapours and spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, eyes and face protections.

Response

P301, P312, P330 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P303, P361, P353 IF ON SKIN (or hair): Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
P304, P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305, P351, P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313, P332, P337 If eye or skin irritation persists: Get medical advice/attention.
P331 Do NOT induce vomiting.

Storage

P403, P233, P235 Store in a well-ventilated place. Keep container tightly closed and cool.
P405 Store locked up.

Disposal

P501 Dispose of contents or container to appropriate waste site in accordance with local and national regulations.

Other Hazards which do not result in Classification : Repeated exposure may cause skin dryness or cracking. Slightly irritating to respiratory system.

SECTION 3: COMPOSITION/INFORMATION ON MATERIAL

Chemical Name	CAS No.	%	OSHA PEL (ppm)	ACGIH TLV (ppm)	Other Limits Recommended
DI Water	7789-20-0	90-98	-	-	-
Organic Acids Mixture	Proprietary	2-9	-	-	-
			-	-	-
Total		100			

SECTION 4: FIRST AID MEASURES

Ingestion:

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Transport to nearest medical facility for additional treatment.

Eye Contact:

Flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

Skin Contact:

Remove contaminated clothing. Flush with large amounts of water.

Inhalation:

Using respiratory protection, immediately remove victim from exposure. Administer CPR if breathing has stopped. Call for prompt medical attention.

Most important symptoms/effects, acute and delayed:

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Other signs and symptoms of central nervous system (CNS) depression may include headache, nausea, and lack of coordination. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Immediate medical attention, special treatment:

Causes central nervous system depression. Call a doctor or poison control center for guidance. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the Product	: Non-flammable.
Auto-Ignition Temperature	: Not applicable.
Flash Points	: Not applicable.
Flammable Limits	: Not applicable.
Products of Combustion	: Not available.
Fire Hazards in Presence of Various Substances	: Not applicable.
Explosion Hazards in Presence of Various Substances	: Not Applicable
Fire Fighting Media and Instructions	: Not applicable.
Special Remarks on Fire Hazards	: Not available.
Special Remarks on Explosion Hazards	: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see SECTION 8.

Environmental Precautions:

Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environment contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

Methods and Materials for Containment and Clean Up:

Transfer spilled liquid by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose safely. Remove contaminated soil and dispose safely.

SECTION 7: HANDLING AND STORAGE

General Precautions:

Avoid breathing vapours or contact with material. Only use in well ventilated areas. Wash thoroughly after handling.

Precautions for Safe Handling:

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 10 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Handling Temperature: Ambient.

Conditions for Safe Storage:

Keep away from aerosols, flammables, oxidizing agents, corrosives and from products harmful or toxic to human or to the environment. Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat.

Storage Temperature: Ambient.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

- | | |
|-------------------------------|---|
| Engineering Measures | : Maintain general or local exhaust ventilation to meet exposure limit requirements. |
| Respiratory Protection | : NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation. |
| Protective Gloves | : Chemical resistant gloves. |

- Eye Protection** : Wear safety glasses with side shields.
Other Protective Equipments : For open systems where contact is likely, wear long sleeves, chemical resistant gloves and chemical goggles.
Work Hygienic Practices : Do not eat, drink, or smoke in work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear transparent Colorless liquid
Odor : Mild odor
Solubility in water: : Soluble
Boiling Point(°C) : ~100°C
Melting Point(°C) : NE
Specific Gravity (water=1 at 25°C) : 1.006 ± 0.005 @ 25°C
Flash Point (°C) : NA
Lower Explosive Limit : NA
Upper Explosive Limit : NA
Auto-ignition Temperature(°C) : NA

SECTION 10: PHYSICAL HAZARDS (STABILITY AND REACTIVITY)

- Chemical Stability** : Stable under normal temperature and pressure.
Possibility of Hazardous Reaction : Data not available
Condition to avoid : Direct contact with flame and excessive heating
Incompatible materials : strong oxidizing agents. Strong acids.
Hazardous Decomposition products : None specified.
Hazardous polymerization : Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

- Toxicity data** : None.
Carcinogenicity : Not listed.
Reproductive Effect : None.
Germ Cell Mutagenicity : Not mutagenic.
Inhalation Toxicity : May cause headache and dizziness, are anesthetic and may have other central nervous system effects.
Acute Ingestion : Small amounts of the liquid aspirated into the respiratory systems during ingestion, or from vomiting may cause bronchiopneumonia or pulmonary edema.
Serious Eye Damage/Irritation : Irritating to eyes.
Respiratory or Skin Sensitisation : Not a skin sensitizer.
Aspiration Hazard : Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Medical Conditions Generally Aggravated by Exposure : None specified.

Substances of very high concern

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

SECTION 16: OTHER INFORMATION

THIS 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. SUCH INFORMATION IS TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED.

HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

*optional

NE = Not Established

NA = Not Applicable

PEL = Permissible Exposure Level