

SAFETY DATA SHEET

Durasol Inorganic Flux T5A

MSDS #: EFH 17-1/4

Date of Preparation: May 2024

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Durasol Inorganic Flux T5A

Trade Name : Durasol T5A

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:



GHS Signal Word : Danger

Hazard Statement:

H304 : Harmful if swallowed
H314 : Cause severe skin burns and eye damage
H335 : May cause respiratory irritation
H410 : Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P260 : Do not breathe dust/fume/gas/mist/vapours/spray

- P264 : Wash thoroughly after handling
P270 : Do not eat, drink or smoke when using this product
P271 : Use only outdoors or in a well ventilated area
P273 : Avoid release to the environment
P280 : Wear protective gloves/ protective clothings/ face protection/ eyes protection.
- P301 + P312 : IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
- P301 + P330 + P331 : If swallowed: rinse mouth. Do not induce vomiting
P303 + P361 + P353 : If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P310 : Immediately call a Poison Centre or doctor/physician
P363 : Wash contaminated clothing before reuse
P391 : Collect spillage

Safety Information:

- P405 : Store locked up
P502 : Dispose of contents/container to accordance with local/ national/ international regulations
P403 + P233 : Store in a well ventilated place. Keep container tightly closed.

SECTION 3: COMPOSITION/INFORMATION ON MATERIAL

Chemical Name	CAS No.	%	OSHA PEL (ppm)	ACGIH TLV (ppm)	Other Limits Recommended
Metal Chlorides	16887-00-6	2	-	-	-
Chloride Acid	7782-50-5	3	-	-	-
DI Water	7789-20-0	95	-	-	-
Total		100			

SECTION 4: FIRST AID MEASURES

Description of first aid measures

- Ingestion : Do not induce vomiting. Seek medical assistance immediately. If person is unconscious, do not feed and do not induce vomiting.
Eye Contact : Rinse with clean water for 15 minutes. Seek medical assistance.
Skin Contact : Remove all contaminated clothing. Rinse with clean water for 15 minutes. Seek medical assistance.
Inhalation : If overcome by exposure, remove victim to fresh air. Give oxygen or artificial respiration if required. Seek medical attention immediately.

Most important symptoms and effects, both acute and delay

Symptoms/injuries after inhalation : Fumes, dust from dried-down product, or mist may cause injury to the respiratory tract. Severe exposure may cause lung damage.

Symptoms/injuries after skin contact : Corrosive to the skin.

Symptoms/injuries after eye contact : Causes eye damage.

Symptoms/injuries after ingestion : Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: FIRE-FIGHTING MEASURES**Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Fire-fighting Procedures

Wear self-contained breathing apparatus and protective clothing. Prohibit all sources of sparks and ignition.

Special hazards arising from the substance or mixture

Hydrogen chloride gas, metal oxides

Unusual Fire and Explosion Hazards

The product itself does not burn

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak/Spill : Prevent additional discharge of material, if possible, to do without hazard. For small spills implement cleanup procedures.

SECTION 7: HANDLING AND STORAGE

Handling : Wash hand thoroughly with soap and water prior to eating, drinking or smoking. Avoid inhalation of vapors and contact with skin and eyes. Observe good industrial practices.

Storage : Store in a cool environment. Empty containers should be drained and properly disposed of.

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 colourless transparent liquid
Odor : Odorless
Solubility in water: : Soluble
Boiling Point(°C) : 100°C
Melting Point(°C) : NE
Vapor Pressure(mm of Hg at 20°C) : NE
Vapor Density (air=1) : NA
Percentage Volatiles (by Volume) : NE
Volatile Organic Compound (VOC) : NA
Evaporation Rate (butyl acetate=1) : NE
Specific Gravity (water=1 at 25°C) : 1.02
Flash Point (°C) : NA
Lower Explosive Limit : NE
Upper Explosive Limit : NE
Auto-ignition Temperature(°C) : NE

SECTION 10: PHYSICAL HAZARDS (STABILITY AND REACTIVITY)

Stability : Stable.
Condition to avoid : NA
Incompatibles : strong oxidizing agents, strong acids and bases.
Decomposition products : None specified.
Hazardous polymerization : Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity data : None.
Carcinogenicity : Not listed.
Reproductive Effect : None.
Effects of overexposure (Chronic Effect):
Inhalation : May cause headache and dizziness, are anesthetic and may have other central nervous system effects.
Ingestion : Small amounts of the liquid aspirated into the respiratory systems during ingestion, or from vomiting may cause bronchiopneumonia or pulmonary edema.
Target Organs : Respiratory system.
Medical Conditions Generally Aggravated by Exposure : None specified.

SECTION 12: ECOLOGICAL INFORMATION

Mobility & Bioaccumulation : Non volatile material.
Biodegradability : Non biodegradable.
Aquatic Toxicity : NE

SECTION 13: DISPOSAL INFORMATION

Dispose according to federal, state and local regulations. If in doubt, contact Singapore Asahi.

SECTION 14: TRANSPORT INFORMATION

Hazard Class : 8
UN Number : 1840
Packaging group : III
Environmental Hazards : Yes
Special shipping instruction : NA

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

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