



Health	1
Flammability	0
Reactivity	0
Personal Protection	E

SAFETY DATA SHEET

Durasol

Inorganic Flux

T8A

MSDS #: EFH 17-12/1

Date of Preparation: August 2017

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Durasol Inorganic Flux T8A

Trade Name : Durasol T8A

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

Eye Irritation : Classification 2A

GHS Signal Word : Warning

GHS Symbol



GHS Hazard Statement : H319 Causes serious eye irritation

GHS Precautionary Statement:**Prevention**

P264 Wash hands thoroughly after handling.
 P280 Wear eye protection or face protection.

Response

P337, P313 If eye irritation persists: Get medical advice/attention.
 P305, P351, P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Hazards which do not result in Classification : None.

INHALATION : High vapor concentrations are irritating to the eyes and the respiratory tract.
 SKIN CONTACT : Frequent and prolonged contact may irritate and cause dermatitis.
 EYE CONTACT : Irritating and will injure eye tissue if not removed.
 INGESTION : Minimal toxicity.

SECTION 3: COMPOSITION/INFORMATION ON MATERIAL

Chemical Name	CAS No.	%	OSHA PEL (ppm)	ACGIH TLV (ppm)	Other Limits Recommended
Metal Chlorides	Proprietary	0-2	-	-	-
Chloride Acid	Proprietary	0-3	-	-	-
DI Water	7789-20-0	95-98	-	-	-
Total		100			

SECTION 4: FIRST AID MEASURES

Ingestion : Do not induce vomiting. Keep at rest. See physician.
 Eye Contact : Flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.
 Skin Contact : Flush with large amounts of water. Remove soiled clothing.
 Inhalation : Using respiratory protection, immediately remove victim from exposure. Administer CPR if breathing has stopped. Call for prompt medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media : Dry chemical, foam, CO₂, etc.
 Fire Fighting Instructions : If leak/spill hasn't ignited, use water spray to disperse vapors. Allow fire to burn under controlled conditions.

Unusual Fire and Explosion Hazards : NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak/Spill : Prevent additional discharge of material, if possible to do without hazard. For small spills implements 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) : 1.01

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 : NA
UN Number : NA
PSN : NA
Special shipping instruction : NA

SECTION 15: REGULATORY INFORMATION

- a. Proposed classification : Harmful.
- b. Risk phrase
 - R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
 - R36/37/38 Irritating to the eyes, respiratory system and skin.
- c. Safety phrase
 - S3/7/9 Keep container tightly closed, in a cool well ventilated place.

S20/21	When using do not eat, drink or smoke.
S23	Do not breathe fume or vapor.
S24/25/26	Avoid contact with skin or eyes. In case of contact with skin, rinse immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S47/49	Keep only in the original container at temperature not exceeding 25°C.
S59	Refer to manufacturer/supplier for information on recovery/recycling.

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