

HMT Solder™ SUPERSOLVENT™ NFIPA

Safety Data Sheet (SDS)

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To comply with European CLP Regulation 1272/2008, US 29CFR 1910.1200 OSHA's Hazard Communication Standard, and Australian NOHSC: 1008 [2004] and ADG Code 7.4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUPERSOLVENT™ NFIPA
SYNONYMS: Solder Flux Removal and PCB Cleaning Solvent
PART NUMBERS: NFIPA, NFIPA-1GAL, NFIPA-5GAL, NFIPA-55GAL

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REVISION DATE: 2022/02/09
REVISION NUMBER: 1.1
REVISED BY: HMT Solder Product Safety

PRODUCT USE: Cleaning Solvent

2. HAZARD IDENTIFICATION

Classified in accordance with European CLP Regulation 1272/2008

Acute Tox. 4
Skins Sens. 2

CHEMICAL NAME: NA
CHEMICAL FAMILY: Mixture
CHEMICAL FORMULA: Proprietary

ROUTES OF ENTRY: Inhalation, Ingestion, Skin/Eye Contact

TARGET ORGANS: NA

GHS/CLP:



Signal Word: Warning

GHS/CLP LABEL ELEMENTS:

Hazard statement(s)
H319 Causes serious eye irritation.
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P261 Avoid breathing vapors.
P305+P352+P338 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause moderate irritation. Do not allow material to come in contact with eyes.
SKIN CONTACT: May cause moderate skin irritation.
INHALATION: May cause irritation to the respiratory tract.
INGESTION: May be fatal if swallowed and enters airways.
CHRONIC: Not established.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Diseases of the blood-forming organs, kidneys, nervous and possibly reproductive systems. Occupational Asthma.

SECTION 2 NOTES:

HMT Solder Inc. does not recommend, manufacture, market, or endorse any of its products for human consumption.

Other hazards not contributing to the classification: Combustible liquid.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Classified in accordance with European CLP Regulation 1272/2008

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Trans-dichloroethylene	(CAS-No.) 156-60-2 (EC-No.) 205-860-2 (REACH-no) 01-2120093504-55	>50	Flam. Liquid H255 Acute Tox. 4 (Inhalation), H332 STOT SE 3, H336 Aquatic Chronic 3, H412

SECTION 3 NOTES:

(1) Per 29 CFR 1910 the mixture has not been tested as a whole. All hazardous components, which comprise 1% of the mixture (0.1% carcinogenic), are listed. Percentages of individual components are not listed as this information is considered a trade secret.

(2) The identity of the specific chemical(s) is being withheld as a trade secret per 29 CFR 1910.1200. The hazardous properties of these ingredients are disclosed in this SDS.

4. FIRST-AID MEASURES

EYES: Flush with plenty of water, contact a physician. If contact lenses can be removed easily, flush eyes without contact lenses.

SKIN: Wash affected area with plenty of warm, soapy water. If irritation persists, seek medical attention.

INGESTION: Call a physician or Poison Control Center immediately. Do not induce vomiting.

INHALATION: Remove to fresh air. If not breathing, seek immediate medical attention.

5. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: Dry powder. Carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Do not use strong water jet. Use NIOSH-approved self-contained Breathing Apparatus and full protective clothing if involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product does not present any unusual fire and explosion hazards.

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: If material spills or leaks, remove traces of residue using absorbent sand or earth. Exposure to spilled material may be irritating. Follow on-site personal protective equipment recommendations.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Collect spillage.

SECTION 6 NOTES:

See Sections 2, 4, and 7 for additional information.

7. HANDLING AND STORAGE

HANDLING/STORAGE: Keep containers tightly closed when not in use. Use care to avoid spills. Avoid inhalation of fumes. Avoid contact with eyes, skin, and clothing. Store in a closed corrosive resistant container, with corrosive resistant liner, in cool dry place. Wear appropriate personal protective equipment when working with or handling. Always wash hands thoroughly after handling this product. Dispose of following Federal, State/Provincial, and Local regulations.

OTHER PRECAUTIONS: Empty containers may retain product residues in vapor, liquid, and/or solid form. All labeled hazard precautions should be observed.

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in work areas. Always wash hands after handling material and before applying or using cosmetics/food/drink/tobacco.

SECTION 7 NOTES:

For industrial use only.

Keep out of reach of children.

Not for internal consumption.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit Values:

Trans-dichloroethylene	ACGIH TWA (mg/m ³)	200ppm	
	NIOSH REL	200ppm	790mg/m ³
	OSHA PEL	200 ppm	790mg/m ³
	OSHA TWA	200 ppm	790mg/m ³
	ACGIH TWA	200 ppm	790mg/m ³

Also see section 3.

ENGINEERING CONTROLS: Use only with production equipment designed for use with solvent cleaners

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLVs.

RESPIRATORY PROTECTION: A (US: NIOSH; EU: EN 140:1998, EN 14387:2004 A)-approved air-purifying respirator with fume/organic chemical cartridge should be worn when airborne concentrations may be exceeded. General and local exhaust ventilation is the preferred means of protection.

EYE PROTECTION: Use with appropriate eye protection: Goggles or face shield (EU: EN 166-S 3 9).

SKIN PROTECTION: Protective gloves (solvent resistant) should be worn when the possibility of skin contact exists (EU: EN 374-1:2003).

PROTECTIVE CLOTHING OR EQUIPMENT: Wear suitable protective clothing.

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in areas where solder products may be used. Always wash hands after handling solvents and before applying or using cosmetics/food/drink/tobacco.

OTHER: Maintain eye wash stations in work areas. Avoid the use of contact lenses in high fume areas. Clean protective equipment regularly. Clean up spills immediately.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE:	Colorless
ODOR:	Slight
ODOR THRESHOLD:	NE
pH as SUPPLIED:	NE
MELTING POINT:	-125 °C
FREEZING POINT:	NE
INITIAL BOILING POINT:	NE
BOILING RANGE:	48 °C
FLASH POINT:	NONE
EVAPORATION RATE:	NE
FLAMMABILITY (solid, gas):	In use, may form flammable vapor-air mixture
UPPER/LOWER FLAMMABILITY:	NE
UPPER/LOWER EXPLOSIVE LIMITS:	6.7 vol %
VAPOR PRESSURE:	65 kPa
VAPOR DENSITY (AIR = 1):	N/A
RELATIVE DENSITY:	1.27 g/cm ³
SOLUBILITY IN WATER:	Insoluble
PARTITION COEFFICIENT (n-octanol/water):	NE
AUTOIGNITION TEMPERATURE:	>400°C
DECOMPOSITION TEMPERATURE:	NE
VISCOSITY (dynamic)	0.4 mPa.s

10. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID (STABILITY):	NE
INCOMPATIBILITY (MATERIAL TO AVOID):	Heat or source of heat, sparks
HAZARDOUS DECOMPOSITION/BY-PRODUCTS:	Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.
POSSIBILITY OF HAZARDOUS REACTIONS:	Carbon Oxides (CO, CO ₂)

11. TOXICOLOGICAL INFORMATION

INHALATION:

This product does not present a risk at ambient temperatures. The fumes evolved during use will irritate the nose, throat and lungs. Repeated or prolonged exposure to flux fumes may cause an allergic affect which may lead to occupational asthma.

SKIN:

Causes Skin Irritation

EYES:

Causes Serious Eye Irritation.

ACUTE TOXICITY:

Product/Ingredient Name	Result	Species	Dose	Exposure
Trans-dichloroethylene	LD50 Oral LC50 inhalation	Rat	7902-9939 mg/kg 24100 ppm	- 4 hours
Trans-dichloroethylene	LD50 Dermal	Rabbit	5000 mg/kg 9510 mg/kg	- 4 hours -

SKIN CORRISSION/IRRITATION:

Not available

SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITIZATION:

Not available

GERM CELL MUTAGENICITY:

Not available

CARCINOGENICITY:

NE

REPRODUCTIVE TOXICITY:

Not available

STOT-SINGLE EXPOSURE: May cause drowsiness or dizziness
STOT-REPEATED EXPOSURE: Not available
ASPIRATION HAZARD: NE

12. ECOLOGICAL INFORMATION

TOXICITY:

Product/Ingredient Name	Result	Exposure
Trans-dichloroethylene	Acute LC50 135 mg/l Fresh water	96 hours
	Acute LC50 220 mg/l Marine water	96 hours

PERSISTENCE AND DEGRADABILITY: May cause long-term adverse effects in the environment
BIOACCUMULATIVE POTENTIAL:
MOBILITY IN SOIL: NE
RESULT OF PBT and vPvB ASSESSMENT: Not applicable
OTHER ADVERSE EFFECTS: NE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Scrap and waste should be recycled or stored in a dry, sealed container for later disposal. Disposal must be in accordance with Federal, State/Provincial, and Local Regulations.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

UN Number: Not available
UN Proper Shipping Name: Not available
Packaging Group: Not applicable
Environmental Hazards: None

TRANSPORT HAZARD CLASSES:

US DOT Hazardous Material Classification: Non-Hazardous
Water Transportation: Non-Hazardous
IATA Hazardous Material Classification: Non-Hazardous
ADR Road Regulations: Not regulated
IMDG Sea Regulations: Not regulated
ADG Land Transportation: Not regulated

15. REGULATORY INFORMATION

All ingredients used to manufacture this product are listed on the EPA TSCA Inventory. Finished product is not listed on the EPA TSCA Inventory.

U.S. FEDERAL REGULATIONS: Not regulated
STATE REGULATIONS: Not regulated
INTERNATIONAL REGULATIONS: Not regulated
AUSTRALIAN REGULATIONS: Not regulated

16. OTHER INFORMATION

LEGEND:

ACGIH American Conference of Governmental Industrial Hygienists
ADG Australian Dangerous Goods Code
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS Australian Inventory of Chemical Substances
BCF Bioconcentration factor
C.A.S. Chemical Abstract Service
CLP Classification, Labeling and Packaging
DOT Department of Transportation
EC Effective Concentration
EPA Environmental Protection Agency
GHS Global Harmonized System
HMIS Hazardous Material Identification System
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods Code
LC Lethal Concentration
LD Lethal Dose
NA Not available
NE Not established
NIOSH National Institute for Occupational Safety & Health
NOEC No observed effective concentration
NOHSC National Occupational Health and Safety Commission (Australia)
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
P_{ow} Octanol water partition coefficient
SDS Safety Data Sheet

STEL	Short-Term Exposure Limit
STOT	Specific target organ toxicity
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA:	Time Weighted Average
US DOT:	United States Department of Transportation

PREPARATION INFORMATION:

This update supersedes all previously released documents.

DISCLAIMER:

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to HMT Solder at the time of issue. No warranty, guarantee, or representation is made by HMT Solder nor does HMT Solder assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances. The data on this Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet as a source for hazard information.

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