



Cobar Europe BV
 PO Box 3251
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 Internet <http://www.cobar.com>

EC-Material Safety Data Sheet according to 2001/58/EG

ECDate : 20 Sep 06

Release : 06.1

396-FTA No Clean, water-based, VOC-free flux

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Identifier As Used On Label: **396-FTA NO-CLEAN, water-based, VOC-free flux**

Product Use: Soldering flux for electronic assemblies when residue is not usually removed.

Manufacturer's Name and Address: Supplier's Name and Address (If different from manufacturer):

Cobar Europe BV
Aluminiumstraat 2
4823 AL Breda
Holland

Cobar Solder Products Inc.
53 Wentworth Avenue
Londonderry
New Hampshire 03053
USA

Telephone Number For Information: +31 76 5445566
 CHEMTREC 24-Hour Emergency Telephone Number: (800) 424-9300

NA = Not Applicable Ne = Not Established UN = Unknown

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS 1% or greater CARCINOGENS 0.1% or greater	C.A.S. Number	Weight Percent	OSHA PEL ppm	ACGIH TLV STEL ppm	LD 50 Ingested g / Kg	LC 50 Inhaled g / m ³
Carboxylic Acids	124-04-9	1.85	NE	NE	NE	NE
Surfactants	mixture	0.5		NE		
Isopropyl alcohol	67-63-0	0,65	400	500	5.8 rabbit	NE
NON-HAZARDOUS INGREDIENTS						
De-ionized water	7732-18-5	97	<small>OSH: Occupational Safety and Health Administration PEL: Permissible Exposure Limit ACGTH : American Conference of Government Industrial Hygienists TLV: Threshold Limit Values STEL: Short-Term Exposure Limit TWA: Time Weighted Average C.A.S.: Chemical Abstract Service</small>			

NOTES: * See Section 15 for U.S.A Regulatory Information



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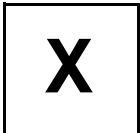
SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Fumes during soldering are irritating to eyes and may cause headache and respiratory system irritation or damage.

ECC (Europe) DANGEROUS SUBSTANCES
 HAZARD DESIGNATION:

R-PHRASES (Risks to Humans or the Environment) :
 R 36/37/38 – Irritating to eyes, respiratory system and skin.



XI Irritant

PRIMARY EXPOSURE:

Flux fumes during soldering may contain organic decomposition products.

PRIMARY ROUTES OF ENTRY: Skin Eyes Inhalation Ingestion

TARGET ORGANS:

Eyes, skin, mucous membranes and respiratory system.

POTENTIAL HEALTH EFFECTS OF ACUTE (severe short-term) EXPOSURE:

INHALATION: Fumes during use may irritate mucous membranes and respiratory system

EYE CONTACT: Irritation from contact with liquid and smoke from soldering

SKIN CONTACT: Possible local irritation by contact with flux or fumes

INGESTION: Gastrointestinal irritation

SKIN ABSORPTION: None

POTENTIAL HEALTH EFFECTS OF CHRONIC (prolonged) EXPOSURE:

Fumes may cause irritation of eyes and mucous membranes, headache, and/or respiratory system irritation or damage.

Prolonged or repeated contact with skin can cause a rash.

Medical Conditions Generally Aggravated by Exposure:

Chemical hypersensitivity, asthma and other respiratory conditions, existing eye and skin disorders.

CARCINOGENICITY/ NTP OSHA IARC Not listed

TERATOGENICITY / MUTAGENICITY: See sections 11 and 15 for additional information.



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SECTION 4 - FIRST AID MEASURES

Seek medical assistance for further treatment, observation and support if needed.

EYE CONTACT: Flush eyes with plenty of water and get medical attention.
SKIN CONTACT: Wash thoroughly with soap and water.
INHALATION: Remove person from exposure to fumes.
INGESTION: Do not induce vomiting. Drink three to four glasses of milk or water and get prompt medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Yes No Conditions to avoid: None
Flash Point (T.O.C.): NA °F NA °C Auto-Ignition Temperature: NA °F NA °C
Flammability Limits percent by volume in air: LEL: NA UEL: NA
Extinguishing Means: Water Carbon Dioxide Alcohol Foam Dry Chemical
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, aldehydes, acids.
Explosion Sensitivity: Impact – None Identified Static Discharge Sensitivity: Yes No

Special Firefighting Procedures: Use water spray to cool fire exposed containers and control vapors.

Unusual Fire and Explosion Hazards: Toxic and acrid fumes may be produced in a fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Spilled or Released:
Use caution to avoid breathing fumes. Prevent runoff into storm sewers and natural waterways.
Absorb with clay, diatomaceous earth, dry sand other inert material. Do not use combustible materials such as sawdust. Place in a chemical waste container.

SECTION 7 - HANDLING AND STORAGE

Storage Precautions: Store at temperatures above 32 °F (0 °C).
Handling Precautions: Keep containers sealed when not in use.
Personal Precautions: Avoid breathing smoke / fumes generated during soldering.
Avoid contact with eyes and skin.



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SECTION 8 - EXPOSURE CONTROLS PERSONAL PROTECTION

VENTILATION TO BE USED: Provide adequate exhaust ventilation (general and / or local) if necessary to meet exposure requirements.
 Local exhaust ventilation is preferred to minimize dispersion of smoke and fumes into the work area.

Respiratory Protection: When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

Protective gloves: Neoprene or rubber gloves where necessary, to avoid skin contact
Eye Protection: Safety glasses or goggles should be used.

Other Protective Clothing and Equipment: An impermeable apron is advised to avoid contact through clothing.

Hygienic Work Practices: Wash hands thoroughly after handling chemicals or solder containing lead before eating or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 20 °C:	Liquid	Specific Gravity (water = 1 at 25 °C):	1.005
Boiling Point (760 mm Hg):	212 °F 100 °C	Melting Point:	NA °F NA °C
Vapor pressure at 50 °C [kPa]:	22	Evaporation Rate (butyl acetate=1):	NA
Vapor Density (air = 1):	NA	Percent Volatile (by volume):	97%
Solubility in Water (% by weight):	100	Volatile Organic Compound (VOC):	0g / Liter
PH:	NA	Odor Treshold:	
Freezing Point (760 mm Hg):	NE °F NE °C	Coefficient of Water / Oil Distribution:	NE

Appearance and Odor : Colorless liquid with no odor

Chemical Stability: Stable Unstable **Conditions to avoid:** NE

Incompatibility (materials to avoid): NE

Hazardous Decomposition Products: When heated to soldering temperatures, the organic materials may be thermally degraded to liberate aliphatic aldehydes and acids.

HAZARDOUS POLYMERIZATION:

May Occur
 Will Not Occur

Conditions to avoid: Not applicable.



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SECTION 10 - STABILITY AND REACTIVITY

SECTION 11 - TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS: Not determined for the product. See section 2 for ingredients.

No data available

SECTION 12 - ECOLOGICAL INFORMATION

Keep out of waterways. Biodegradation is expected in a waste treatment plant.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

According to local regulations. Considerated biodegradable.

CAUTION: Empty containers may contain product residue. Observe all label precautions.

SECTION 14 - TRANSPORT INFORMATION

DOT (U.S.A.): Non-Hazardous

TDG (Canada): Not Regulated

SECTION 15 - REGULATORY INFORMATION

U.S.A.: All Chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory.

California Proposition 65: None

Canada: WHMIS (Workplace Hazardous Materials Information System) CLASSIFICATION:
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Product Regulations (CPR) and the MSDS contains all the information required by the CPR.

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- Europe:** European Council Directive 67/548/EEC
- DANGEROUS SUBSTANCES HAZARD CLASSIFICATION: Xi-irritant
 - R-PHRASES (Risks to Humans or the Environment)
R36/37/38 - Irritating to eyes, respiratory system and skin.

 - S-PHRASES (Safety Precautions for Storing, Handling and Using the Product)
S2 - Keep out of reach of children
S23 - Do not breathe the fumes
S24/25 - Avoid contact with skin and eyes
S29 - Do not empty into drains

SECTION 16 - OTHER INFORMATION

NFPA Rating:	Health: 2	Flammability: 0	Reactivity: 0	Special:
HMIS Rating:	Health: 2	Flammability: 0	Reactivity: 0	Personal Protection: X

PREPARATION INFORMATION

Revision Summary: Change of format and new data in most sections

Prepared By: E. Westerlaken

Last update: 24-4-05

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Cobar Europe BV extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material 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 the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained how to use a Material Safety Data Sheet as a source for Hazard information.