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EC-Material Safety Data Sheet according to 2001/58/EG
EC Date.....: 05 Apr 07
Release.....: 06.2

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

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1. IDENTIFICATION OF THE PRODUCT and OF THE ENTERPRISE

Chemical name: Water-soluble soldering flux

Manufacturer	Cobar Europe BV PO Box 3251 4800 DG Breda Holland	Agent	
Emergency	phone : +31 (0)76 544 5566 fax : +31 (0)76 544 5577	Emergency	phone : fax..... :

2. INFORMATION ON INGREDIENTS/COMPOSITION

Ingredients	Classification	Weight %	CAS-No	TLV-value
Carboxylic acid	R36	2.5	124-04-9	No TLV established
De-ionized water		94	7732-18-5	No TLV established
Surfactants		0.3	mixture	No TLV established
Isopropyl alcohol		3.2	67-63-0	400 ppm

3. HAZARDS IDENTIFICATION

Most important hazards	R36: irritating to eyes.
Eyes	A high concentration of liquid, mist, or vapor may cause irritation of the connective tissue.
Skin	Repeatedly or continuous contact may decrease the skin that may lead to irritation and allergies. Absorption of harmful substances is unlikely.
Choking	Depression of the central nervous system. Effects of overexposure may be: nausea, vomiting, tummy ache, dizziness, unconsciousness. Inhalation or vomiting may cause severe lung damage.
Inhalation	Unlikely to occur as majority of the product contains water.

4. FIRST AID MEASURES

Eye contact	Flush with copious warm water for at least 15 minutes, with open eye. Call physician at once.
Skin contact	Flush with copious water for at least 15 minutes. Infected clothing must be washed in case of reuse.
Ingestion	Rinse mouth with water. Keep warm and calm. DO NOT induce vomiting! Call physician at once.
Inhalation	Inhalation at ambient temperatures is unlikely.

5. EXTINGUISHING MEASURES

Proper extinguishing media	There is no fire hazard.
Improper extinguishing media	There is no fire hazard.
Protective clothing	Not necessary.



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6. MEASURES TO EXPOSURE OF THE PRODUCT

Personal precautions	Wearing of protective clothing.
Environmental precautions	Keep away from drains, surface-water, ground water and soil.
Cleaning procedures	Absorb with sand and other diminishing material. Waste disposal could be done by incineration in furnace but should be delivered in proper containers.

7. HANDLING AND STORAGE

Handling	Use in well-ventilated areas; avoid breathing vapors. Keep containers closed when not in use.
Storage	Keep in cool, well-ventilated area. This should be done in accordance with the applicable laws and regulations.

8. EXPOSURE CONTROLS/PERSONAL EXPOSURE

Control parameters	TLV is not established, product contains over 80% water.
Other regulations	not applicable
Measures for technical control	Preference of technical measure to prevent or control contact with the product. Isolating process and personnel, mechanical ventilation (dilution and local exhaust) and the regulation of process conditions. In case of non-prevention or non-control, a proper protective wearing is advised.
Respiratory protection	Vapor concentrations are unlikely to occur.
Hand protection	Solvent-resistant gloves (butyl rubber).
Eye protection	Safety glasses with side-shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	liquid
Color	colorless
Smell	none
Boiling point at °C	100
Melting point at °C	NA
Flashpoint at °C	none
Inflammability limits (vol. % in air)	none
Solubility in water (mg/l)	complete
Vapor pressure at 50 °C [kPa]	22
Vapor density (air = 1)	not established
Density at 20 °C	1.012
Inflammability	none
Ignition temperature at °C	none
Evaporation rate	not established

10. STABILITY AND REACTIVITY

Stability/reactivity	Stable product at normal conditions.
Conditions to avoid	High temperatures.
Materials to avoid	Strong oxidizers.
Hazardous decomposition products	Not known.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity	None.
Specific effects	Not carcinogenic. Not mutagenic: tested with salmonella typhimurium egg cells at guinea pigs.

12. ECOLOGICAL INFORMATION

Mobility	The product will become gaseous at temperatures beyond 100 °C.
Degradability	The product is biodegradable BOD20 = >95% of ThOD. The product is proved to be biodegradable under anaerobic conditions.
Bioaccumulation	Not likely.
Ecotoxicity	EC50/24h/Daphnia = 9714 mg/l. LC50/96h/Fish = 1000 mg/l. EC50/24h/Algae = 1800 mg/l.
Reference to BlmSchV	not applicable
Hazard classification	not applicable

13. DISPOSAL CONSIDERATIONS

Product	Waste disposal could be done by incineration in furnace in accordance with the applicable laws, and regulations.
Hazardous waste number	Since regulations vary, consult applicable regulations, or authorities before disposal.

14. TRANSPORT INFORMATION

UN number	not applicable
ADR/RID class	not applicable
ADR/RID number	not applicable
ADR/RID	not applicable
GGVS/GGVE	not applicable
IMDG-packaging group	not applicable
IMDG-class	not applicable
IMDG-Marine pollutant	not applicable
IMDG-EmS number	not applicable
IMDG-MFAG-table number	not applicable
IATA packaging group	not applicable
IATA class	not applicable
GVS	not applicable



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15. REGULATORY INFORMATION

Physical/chemical indication	not applicable
Risk-phrase	not applicable
Safety-phrases	not applicable
EC appendix 1 classification	not applicable
EC number in appendix 1	not applicable

16. OTHER INFORMATION

Further information	Instruction to staff according to Act Dangerous Goods, part 3, paragraph 14 and next.
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Disclaimer

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