

SAFETY DATA SHEET

Lead-Free Flux Dispensing Pen - CW8400

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation**Product name** : Lead-Free Flux Dispensing Pen - CW8400**Use of the substance/preparation** : FLUXES (FOR SOLDERING)**Company/undertaking identification****Manufacturer** : ITW Chemtronics
8125 Cobb Center Drive
Kennesaw, GA 30152**Supplier** : [
[
[
[**Importer** : ITW Contamination Control
Skejby Nordlandsvej 307
DK-8200 Aarhus N
Denmark
Tel +45 87 400 220
Fax +45 87 400 222
Email: info@itw-cc.com**Emergency telephone number** : Chemtrec - 1-800-424-9300 or collect 703-527-3887

2. Composition/information on ingredients

Substance/Preparation : Preparation

Ingredient Name	CAS number	%	EC Number	Classification
propan-2-ol	67-63-0	50-90	200-661-7	F; R11 Xi; R36 R67
Colophony	8050-09-7	10-20	232-475-7	R43
Solvent naphtha (petroleum), medium aliph.	64742-88-7	1-5	265-191-7	Xn; R65
See Section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R11- Highly flammable.R36/38- Irritating to eyes and skin.R43- May cause sensitisation by skin contact.**Physical/chemical Hazards** : Highly flammable.**Human health hazards** : Irritating to eyes and skin.
May cause sensitisation by inhalation and skin contact.**See Section 11 for more detailed information on health effects and symptoms.**

4. First aid measures

First aid measures**Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.**Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.**Skin Contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.**Date of issue** : 1/27/2006.

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Eye contact : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

Specific treatments :

See Section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : In case of fire, use water spray (fog), foam, dry chemical, or CQ.

Special exposure hazards : Highly flammable liquid and vapour. Vapour may cause flash fire.
Not available.

Hazardous thermal decomposition products : Fumes highly irritant. carbon oxides (CO, CO₂).

Special protective equipment for fire-fighters : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal Precautions : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental precautions and cleanup methods : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling : Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep away from heat, sparks and flame. When using do not eat, drink or smoke. Wash thoroughly after handling.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame).

Packaging materials

Recommended : Use original container.

Specific uses :

8. Exposure controls/personal protection

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
propan-2-ol	ACGIH TLV (United States, 2000). STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s).
Colophony	EU OEL (Europe, 1989). Sensitiser skin, Sensitiser inhalation Notes: TWA: 0.05 mg/m ³ 8 hour(s). TWA: 0.15 mg/m ³ 15 minute(s).

Recommended monitoring procedures : MDHS83

Exposure controls

Occupational exposure controls : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

Hand protection : Use chemical resistant, impervious gloves.

Eye protection : Safety glasses.

Skin protection : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid.
 Colour : Colourless to light yellow.
 Odour : Alcohol-like.

Important health, safety and environmental information

pH : Not applicable.
 Boiling point : The lowest known value is 82.55°C (180.6°F) (propan-2-ol).
 Melting point : May start to solidify at -88.83°C (-127.9°F) based on data for: propan-2-ol.
 Flash point : The lowest known value is Open cup: 11.9°C (53.4°F). (propan-2-ol)
 Explosive properties : Not considered as a product presenting risks of explosion.
 Oxidising properties : Not available.
 Relative density : 0.83g/cm³
 Solubility : Insoluble in cold water, hot water.
 Vapour density : The highest known value is 2.07 (Air = 1) (propan-2-ol).
 Evaporation rate (butyl acetate = 1) : 1.7 (propan-2-ol) compared to (n-BUTYL ACETATE=1)

Other information

Auto-ignition temperature : The lowest known value is 399.05°C (750.3°F) (propan-2-ol).

10. Stability and reactivity

Stability : The product is stable.
 Hazardous Decomposition Products : Fumes highly irritant. carbon oxides (CO, CO₂).

11. Toxicological information

Potential Acute Health Effects

Inhalation : May cause sensitisation by inhalation.
 Skin Contact : May cause sensitisation by skin contact.
 Eye contact : May cause eye irritation.

Acute toxicity

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3570 mg/kg	Oral	human
	LDLo	5272 mg/kg	Oral	man

Over-exposure signs/symptoms

Target Organs : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other adverse effects : Not available.

12. Ecological information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
propan-2-ol	Pimephales promelas (EC50)	48 hour(s)	10000 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l





Other adverse effects : Not available.

13. Disposal considerations

- Methods of disposal** : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.
- Waste Classification** : Not applicable.
- European Waste Catalogue (EWC)** : Not available.
- Hazardous Waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1993	(propan-2-ol)	3	-		-
ADN Class	1993	(propan-2-ol)	3	-		-
IMDG Class	1993	Flammable liquid, n.o.s. (propan-2-ol)	3	II		-
IATA-DGR Class	1993	Flammable liquid, n.o.s. (propan-2-ol)	3	II		-

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Highly flammable

Risk phrases : R11- Highly flammable.R42/43- May cause sensitisation by inhalation and skin contact. R36/38- Irritating to eyes and skin.

Safety Phrases : S16- Keep away from sources of ignition - No smoking.S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.S37- Wear suitable gloves.S2- Keep out of the reach of children.

Contains : Colophony 232-475-7

Product Use : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Industrial applications

EC Statistical Classification (Tariff Code) : 32089091

16. Other information

- Full text of R phrases referred to in Sections 2 and 3 - Europe** : R11- Highly flammable.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R43- May cause sensitisation by skin contact.
R67- Vapours may cause drowsiness and dizziness.

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Full text of classifications : F - Highly flammable
referred to in Sections 2 and 3 - Xn - Harmful
Europe Xi - Irritant

HISTORY

Date of printing : 1/27/2006.
Date of issue : 1/27/2006.
Date of previous issue : No Previous Validation.
Version : 1.01
Prepared by :

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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