

### Solar Power Photovoltaic Flux

Flux do not contain halogen, and it has little solid state, it also has High Insulation Resistance. It is new environment and no clean solar flux just for solar power photovoltaic. It has blow characteristics:

A: This Special-purpose flux just been used for soldering solar cell type of solar power photovoltaic.

B: Why are we flux can achieve optimum results, we add high boiling point dissolvant make it can keep activity at high temperature.

C: For keeping best soldering effect many import efficient activators are added to flux.

D: Low solid content, the little residue is non-corrosiveness, solder strip is Smooth Luminous.

E: Flue gas small, no pungent smell, making the worker keep high efficiency.

Solar Power Photovoltaic Flux Meet blow international standards:

- 1,EU ROHS standards.
- 2,International electrician association IEC no halogen standards.
- 3,EU REACH standards.

### Typical Specifications:

| Item                      | Specifications             |
|---------------------------|----------------------------|
| Facade color              | Colorless and Clear liquid |
| Sort of flux              | OA                         |
| Specific gravity (20℃)    | 0.800 ± 0.005              |
| Welding spot chroma       | light                      |
| Halogen(%)                | 0                          |
| Solid component(%)        | 1.6 ± 0.2                  |
| Insulation Resistance( Ω) | 1.00 × 10 <sup>8</sup> Ω   |
| Diffusion rate(%)         | 88%                        |
| Copper mirror test        | Pass                       |
| Residue dryness           | Cohesionless               |
| Electromigration test     | No dendritic crystal       |
| Baking temperature (℃)    | 50℃-170℃                   |
| Baking time               | 1-3 seconds                |
| Operational approach      | Mist spray                 |
| Tin time on               | 2-3seconds                 |

**MATERIAL SAFETY DATA SHEET****Two: Composition/ Element Data**Pure substance  Mixture 

| No. | Composition               | High content (%) | Remark                            |
|-----|---------------------------|------------------|-----------------------------------|
| 1   | Stabilizer                | 0.20             | /                                 |
| 2   | High boiling solvent      | 1.20             | /                                 |
| 3   | Activating agent          | 0.60             | /                                 |
| 4   | Organic acid              | 1.80             | /                                 |
| 5   | Blowing agent             | 0.20             | /                                 |
| 6   | Mixed alcohol solvent     | 94.00            | Security within the concentration |
| 7   | Volatile agent resistance | 2.00             | Security within the concentration |

**Three: identification data**

|                               |   |
|-------------------------------|---|
| Material material sort :      | Level 3 flammable liquid                        |
| Routes of invasion:           | 1. Breathing into; 2. Swallow; 3. Skin contact. |
| Hazard warning for health:    | At present no formal medical reports.           |
| Environmental effect:         | The spread is expected volatile primarily.      |
| Physical and chemical hazard: | NO  |

**Four: First aid treatment**

|                |  |
|----------------|--|
| Inhalation:    | 1. Taking away pollution source or removing the victim to fresh air; 2. Seek immediate medical attention.. |
| Skin contact : | Available with soap wash water.  |
| Eye contact:   | Touch the eyes carelessly, usable water washing 15 minutes, and immediate medical attention.               |

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|            |  |
|------------|--|
| Ingestion: | To drink 240 patients ~ 300 ml water, medical treatment. |
|------------|--|

## Five: Fire protection measure

|   |   |
|---|---|
| Suitable extinguishing media :                | Carbon dioxide or dry powder fire extinguisher. |
| Special exposure hazards :                    | The fire may rupture in containers.             |
| Procedure of fire control:                    | No special program.                             |
| Special Protection Equipment of Firefighters: | Wearing air respirator and protective gloves    |

## Six: Leak processing method

|                      |  |
|----------------------|--|
| Emergency Treatment: | Please use straw or dry cloth suck up them and rinsing them with water.                        |
| Small leak:          | Using dry cloth suck them and rinsing them with water.   |
| Leak a lot:          | You should contact fire brigade, Emergency management department and supplier to ask for help. |

## Seven: Safe handling and storage method

|           |   |
|-----------|---|
| Handling: | Flammable, so must be away from fire seat and oxide.  |
| Storing:  | Do not store in the scope of children's palpable, Lid banned at any time, and stored in the place no direct sunshine. |

## Eight: Contact control/personal protection

|   |  |                                     |
|---|--|-------------------------------------|
| Engineering control: Using the ventilation system won't produce sparks and grounding, it must apart with other ventilation system, then the vent must directly connected to the window. |  |                                     |
| Controls parameter  |  |                                     |
| Eight hours a day on average concentration is allowed   | Average allow concentration in short time  | MAC maximum allowable concentration |
| 750PPM  | 1000PPM  | -----                               |
| Individual protection   |  |                                     |
| 1. Respiratory protection:  | Alcohol is safety solvent , but under high concentrations and close handling you should wear gas mask. |                                     |
| 2. Hand protection:   | Using a rubber gloves.   |                                     |
| 3. Eye protection:  | Wearing safety glasses .   |                                     |
| 4. Skin and body protection:  | Wearing body covering clothing and footwear.   |                                     |

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|                     |   |
|---------------------|---|
| 5. Health measures: | Please first wash hand after handling it. |
|---------------------|---|

## Nine: Physical and chemical properties

|                            |  |
|----------------------------|--|
| State of matter:           | liquid   |
| Appearance/color:          | Colorless and Clear  |
| Smell:                     | Sweetness style of alcohol                                 |
| PH value:                  | 6.2±0.5  |
| Boiling spread:            | 80-280±2°C   |
| Flash point:               | 45   |
| Autoignition temperature:  | 450°C  |
| Explosion limit:           | 7.9  |
| Vapour pressure:           | 110  |
| Density:                   | 0.800±0.005  |
| Decomposition temperature: | -----  |
| Main application:          | Soldering special on solar power photovoltaic subassembly. |

## Ten: Safety and responsive

|                                 |  |
|---------------------------------|--|
| Safety:                         | Stable   |
| Possible hazard response :      | Strong oxide can increase the risk of fire and explosion , spark, burning cause by fire. |
| Conditions which need to avoid: | Never being posed in sunlight or overheat, Never touch water, ass or acid-base.          |
| Substance which need to avoid:  | Strong oxides  |
| Dangerous analyte:              | None   |

## Eleven: Poisonous Datas

|                   |   |
|-------------------|---|
| Instant toxicity: | The toxicity is very low ,avoid to touch under high consistence |
| Especial effect   | None  |

## Twelve: Ecological information

|  |               |
|--|---------------|
| Possibility of environmental impact / move:    | No            |
| Biodegradability:                              | biodegradable |
| Ecological toxicity and biological enrichment: | No            |

## Thirteen: Waste treatment methods

|                          |  |
|--------------------------|--|
| Waste treatment methods: | Diluted with water treatment or send them to organic waste processing company with licenses. |
|--------------------------|--|

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## **Fourteen: Transport details**

|  |  |
|--|--|
| International Transport Regulation:    | The third type of flammable liquids, packing grade II. |
| UN number:                             | 1219   |
| Domestic shipping regulations:         | The road traffic safety rules article 84.              |
| Packing mark:                          | Flammability   |
| Special delivery method and attention: | Attention the sparkle and static.                      |

## **Fifteen: Regulation Information**

|                   |   |
|-------------------|---|
| Applicable rules: | Prevent rules of toxication caused by organic solvent.<br>Traffic regulation. |
|-------------------|---|