

HEALTH & SAFETY DATA SHEET.

Identification of the Substance/Preparation and Company.

ElectroKleen 2020 (CONCENTRATE)

Company: Surclean

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Composition/Information on Ingredients

General description: a synergistic blend of Alkoxy Propanols for the removal of post Soldering Flux residues and uncured Adhesives/Paste from Printed circuit boards in Electronics Manufacture.

Ingredients

Name of Ingredients	Concentration	Warning Phrases	Cas number	Einecs number
Non Hazardous	100 %	N/A	N/A	N/A

Hazards Identification

- Not regulated as a health hazard under current legislation.
- Odour: Slight fragrance
- Appearance: Colourless liquid
- Contact with skin: Prolonged skin contact may result in some defatting of the skin.

First aid measures

Contact with skin

- wash the affected area with plenty of soap and water.
- afterwards, a suitable moisturising skin cream can be applied.

Contact with eyes

- If material has got into eyes, wash out immediately with plenty of water for at least 15 minutes.
- Seek medical attention if any irritation persists.

Ingestion

- Give patient plenty of water to drink. NEVER MAKE AN UNCONCIOUS PERSON VOMIT OR DRINK FLUIDS. DO NOT INDUCE VOMITING.
- Seek medical attention immediately.

Inhalation and General

-Remove the patient from source of exposure to fresh air and lie down. Seek medical advice if necessary. If casualty is unconscious, place into the recovery position. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% Oxygen. Keep affected person warm and at rest. Seek prompt medical attention.

Fire fighting measures

Extinguishing Media

- N/A.

Special Fire Fighting Procedures for materials exposed to adjacent conflagration.

-Do not use water jets. Wear breathing apparatus. Use Water to keep fire exposed containers cool and to disperse vapours. Dike for water control. Cool containers exposed to flames with water until well after exposure to fire. Move container from the fire area if it can be done without risk. Use water spray to reduce vapours. For large scale fires in cargo areas, use unmanned hose holder or monitor nozzles if possible. If not, withdraw and let fire burn out. If risk of water pollution occurs, notify appropriate authorities.

Unusual Fire & Explosion Hazards

- Pressure build up. Vapours may form explosive mixture with air.

Accidental release measures

Immediate actions

- Shut off all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

Clean up procedures

-Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage in a suitable inert material such as vermiculite, dry sand or earth and place into appropriate container. Avoid contact with skin or inhalation of spillage, dust or vapour. Clean up personnel should use respiratory and liquid contact safety protection clothing.

Handling and Storage

Usage precautions

- Keep away from sources of ignition. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours.

Use approved respirator if air contamination is above accepted level. Wear full protective clothing for aged exposure and/or high concentrations.

Storage Precautions

- Keep away from oxidizers, heat and flames. Isolate from other materials. Keep in a cool, dry, ventilated area and in closed containers. Ground container and transfer equipment to eliminate static sparks risk.

Storage Criteria

- Chemical storage. No other special storage conditions noted.

Exposure Controls and Personnel Protection

Ingredient Name	CAS No.	STD	LT EXP(8 hrs.)	ST EXP(15 mins.)
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No exposure limits noted for the ingredients. However max 10mg/m³ recommended.

- Product as supplied from the constituent ingredients can be absorbed through the skin.

Protective Equipment

Ventilation

- provide adequate general and local exhaust ventilation.

Respirators

- No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended exposure level (OEL).

Protective Gloves

- Use protective Gloves. Chloroprene, Nitrile or Butyl Rubber Industrial grade Gloves.

Eye protection

- Wear approved safety goggles. Full face shield protection preferred.

Other Protection

- Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygienic Work routines

- DO NOT SMOKE IN WORK AREA. Wash at the end of each work period and before food consumption, smoking or using the toilet. Remove any clothing that becomes contaminated immediately. Do not eat or drink whilst working with this material.

Physical and Chemical Properties

Appearance

- colourless liquid

Odour/Taste

- Mild. Rancid. Sweet.

Solubility Description

- Active ingredients partly soluble in water. Soluble in: Organic Solvents (some)

Changes of state	Value/range	unit	method
Freezing/Melting point	-25	deg C.	
Boil. point/range	200-230	deg C.	
Flash Point	N/A		
Auto ignition temperature	N/A		

Explosion hazard

Explosion limits

-N/A

Vapour pressure

-N/A

Density

-0.898 - 0.905 @ 20 deg. C.

Solubility

-partly soluble in water

PH Value

-Neutral

Viscosity

-2.0-2.2 cSt @ 25 deg. C.

Stability and Reactivity

Stability

-Normally stable.

Materials to avoid

-Bases, Alkalies (Inorganic), Strong Oxidizing agents, Strong Reducing agents

Hazardous Decomposition products

-Material does not decompose up to the specified boiling point. Thereafter in case of exposure to heat, material can create Vapours/gases/Fumes of: Carbon Monoxide (CO), Carbon Dioxide (CO₂).

Toxicological Information

Toxic Dose-LD50

-ingestion: Toxic dose 1-LD50 24573mg/kg (oral rat)

-ingestion: Toxic dose 2-LD50 6750mg/kg (oral rabbit)

The values of the ingredients are significantly lower than LD50 (oral rat) : 2000mg/kg.

Skin Contact

-Repeated/prolonged contact causes degreasing and may cause irritation. Mutagenic and teratogenic effects have not been noted from testing.

Eye Contact

-Initial eye contact will cause chronic eye irritation. Inhalation -Higher concentrations can cause irritation of the respiratory system, nausea and dizziness.

Ecological Information

Mobility

-accumulates on surface of water. Product remaining on surface evaporates within one day. Larger volumes may penetrate soil layer and could contaminate groundwater.

Bio-Accumulation

Does not significantly bio-accumulate. Unlikely to persist in the aquatic environment.

Degradability

-Material is readily bio-degradable meeting the 10 day window criterion. As the material is substantially water based it is a Zero VOC potential material. Integrated environmental half-life is estimated to be 1-< 10 days.

-BOD5=44 BOD10=55 BOD15=64 BOD20=69 BOD28=75. Figures for concentrated material

Acute Fish Toxicity

-Practically non toxic. However best practice states material should not be drained.

Disposal Considerations

Disposal methods UK

-Dispose of in accordance with Local Authority requirements.

EEC waste listing class according to (94/3/EG)

-Disposal No. 140303 (Solvents/Solvent blends not containing Halogenated material)

Suggested disposal/recovery methods-

-Material can be disposed of by high temp. incineration methods equipped with water fume scrubbing.

-Minor waste content from incineration or filtration waste should be collected and disposed of by licensed Chemical waste removal Contractors. Specification of minor waste content will be mostly that of the production materials for which the cleaning material was used. To advise the disposal contractor therefore, refer to the production material data source.

Transport Information

Ground Transportation ADR/RID

-ADR/RID Not classified

-item " "

-UN number " "

Sea Transportation IMDG - Code

-IMDG Not classified

-page " "

-UN number " "

-Packaging class " "

-EMS number " "

-MFAG 305

Air Transportation ICAO-TI and IATA-DGR

-ICAO/IATA Classification Not classified

-UN ID number " "

-Packaging Class " "

Regulatory Information

EEC Supply Label-

Risk Phrases

-None

Safety Phrases

-S-24/25 Avoid contact with skin and eyes.

-S36/37 Wear suitable protective clothing and gloves.

Statutory Instruments

-Chemicals (Hazard Information and Packaging) regulations.

-Control of Substances Hazardous to Health (CoSHH) regulations.

Guidance Notes

-Occupational Exposure Limits HSE publication No. EH40.

Issue date and revision number

Version 1.0 June 2003.

Disclaimer

This information relates only to the specific material designated and will not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the Manufacturers knowledge and belief, accurate and reliable as of the date shown. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the users sole responsibility to satisfy himself as to the suitability of such information for their particular application.

