

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2009

Revision: 16.03.2009

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

Product details

Trade name: SP-30

Application of the substance / the preparation Soldering flux

Manufacturer/Supplier:

Kester
800 W. Thorndale Ave.
Itasca, IL 60143

Tel.(847) 297-1600
Fax.(847) 390-9338

Further information obtainable from: -
Information in case of emergency:

CHEMTREC 24-Hour Emergency Response Telephone Number : (800) 424-9300

CHEMTREC 24-Hour Emergency Response (Outside US & Canada) Telephone Number : (703) 527-3887

2 Hazards identification

Hazard description:


C Corrosive
N Dangerous for the environment

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 34 Causes burns.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS label elements


Danger

3.2/1B - Causes severe skin burns and eye damage.



4.1/2 - Toxic to aquatic life with long lasting effects.

Prevention:

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see label).

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*Wash contaminated clothing before reuse.**Collect spillage.***Storage:***Store locked up.***Disposal:***Dispose of contents/container in accordance with local/regional/national/international regulations.*

3 Composition/information on ingredients

Chemical characterization**Description:** *Mixture of substances listed below with nonhazardous additions.***Dangerous components:**

CAS: 7646-85-7 EINECS: 231-592-0	zinc chloride	C, Xn, N; R 22-34-50/53 Danger: 3.1.O/3; 3.2/1B Warning: 4.1.C/1	10-25%
CAS: 12125-02-9 EINECS: 235-186-4	ammonium chloride	Xn, Xi; R 22-36 Danger: 3.1.O/3, 3.3/2A	2.5-10%
CAS: 8009-03-8 EINECS: 232-373-2	Petrolatum		50-100%

4 First-aid measures

General information: *Immediately remove any clothing soiled by the product.***After inhalation:** *Supply fresh air; consult doctor in case of complaints.***After skin contact:** *Immediately wash with water and soap and rinse thoroughly.***After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.***After swallowing:** *Drink plenty of water and provide fresh air. Call for a doctor immediately.*

5 Fire-fighting measures

Suitable extinguishing agents:*CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***Special hazards caused by the substance, its products of combustion or resulting gases:***In case of fire, the following can be released:**Carbon monoxide (CO)**Carbon dioxide (CO₂)**Hydrogen chloride (HCl)***Protective equipment:** *Wear self-contained respiratory protective device.*

6 Accidental release measures

Person-related safety precautions: *Wear protective clothing.***Measures for environmental protection:** *Do not allow product to reach sewage system or any water course.*

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Measures for cleaning/collecting:

Scoop up paste and deposit in appropriate containers. Remove residual with glycol ether solvent.

7 Handling and storage

Handling:**Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about fire - and explosion protection: *No special measures required.*

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.*

Information about storage in one common storage facility: *Not required.*

Further information about storage conditions: *Store in cool, dry conditions in well sealed receptacles.*

8 Exposure controls/personal protection

Additional information about design of technical facilities: *No further data; see item 7.*

Ingredients with limit values that require monitoring at the workplace:**7646-85-7 zinc chloride**

WEL	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
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12125-02-9 ammonium chloride

WEL	Short-term value: 20 mg/m ³ Long-term value: 10 mg/m ³
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Personal protective equipment:**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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.

Protection of hands:

Protective gloves

Material of gloves

Nitrile rubber, NBR

Natural rubber, NR

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*Penetration time of glove material**The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.***Eye protection:***Tightly sealed goggles**Safety glasses*

9 Physical and chemical properties

General Information

Form: *Pasty*
Colour: *Amber coloured*
Odour: *Mild*

Change in condition

Melting point/Melting range: *49 °C*
Boiling point/Boiling range: *Undetermined.*

Flash point: *221 °C*

Danger of explosion: *Product does not present an explosion hazard.*

Vapour pressure at 20°C: *1.0 hPa*

Density at 20°C: *1.05 g/cm³*

Solubility in / Miscibility with water: *Partly miscible.*

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*

Materials to be avoided: *Strong acids, strong oxidizers.*

Dangerous reactions *No dangerous reactions known.*

Dangerous decomposition products:

Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)

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11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

7646-85-7 zinc chloride

Oral	LD50	350 mg/kg
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Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong irritant with the danger of severe eye injury.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

General notes:

Do not allow product to reach ground water, water course or sewage system.

Toxic for aquatic organisms

13 Disposal considerations

Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

European waste catalogue

16 10 01	aqueous liquid wastes containing dangerous substances
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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 8 Corrosive substances.

UN-Number: 2331

Packaging group: III

Hazard label: 8

Description of goods: 2331 ZINC CHLORIDE, ANHYDROUS, mixture

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Maritime transport IMDG:

IMDG Class: 8
UN Number: 2331
Label 8
Packaging group: III
Marine pollutant: No
Proper shipping name: ZINC CHLORIDE, ANHYDROUS, mixture

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8
UN/ID Number: 2331
Label 8
Packaging group: III
Proper shipping name: ZINC CHLORIDE, ANHYDROUS, mixture
UN "Model Regulation": UN2331, ZINC CHLORIDE, ANHYDROUS, mixture, 8, III
Environmental hazards: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID

15 Regulatory information

Code letter and hazard designation of product:

C Corrosive
 N Dangerous for the environment

Risk phrases:

34 Causes burns.
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

1/2 Keep locked up and out of the reach of children.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16 Other information

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester 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 on how to use a Material Safety Data Sheet as a source for hazard information.

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*Relevant R-phrases**22 Harmful if swallowed.**34 Causes burns.**36 Irritating to eyes.**50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.***Abbreviations and acronyms:***ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)**ICAO: International Civil Aviation Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

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