



according to 1907/2006/EC, Article 31

Version number 10 Revision: 05.12.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Trade name: 985M Soldering Flux

Relevant identified uses of the substance or mixture and uses advised against

Soldering Flux

Professional use of solder

1.3 Details of the supplier of the safety data sheet

This Safety Data Sheet has been updated in accordance with the Globally Harmonized System (GHS).

Manufacturer/Supplier:

Kester Inc.

800 West Thorndale Avenue

Itasca, IL 60143

Tel 00+1 + 630 616 4000

ITW Specialty Materials (Suzhou) Co., Ltd.

Hengqiao Road, Wujiang Economic Development Zone

Suzhou, Jiangsu Province, China 215200

Tel +86 512 82060807

Further information obtainable from: Product Compliance: EHS_Kester@kester.com

1.4 Emergency telephone number:

TRANSPÖRT ÉMERGENCY Phone: CHEMTREC (800) 424-9300 (Outside US & Canada): 00+1 +703 527 3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS02 GHS07

Signal word Danger **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves / eye protection.

(Continued on page 2)





according to 1907/2006/EC, Article 31

Version number 10 Revision: 05.12.2015

Trade name: 985M Soldering Flux

(Continued from page 1)

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P304+P340

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

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Chemical components:			
CAS: 67-63-0 EINECS: 200-661-7	Isopropanol	>60%	
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light Asp. Tox. 1, H304 Skin Irrit. 2, H315	5-10%	
	Aliphatic carboxylic acid September 1997 Eye Irrit. 2, H319	1.0-3.0%	
	Halogenated organic diol Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1.0-3.0%	

Additional information:

This solder product does not contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Follow general first aid procedures.

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. If symptoms persist, consult a doctor.

After swallowing: Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **For safety reasons unsuitable extinguishing agents:** Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

(Continued on page 3)





according to 1907/2006/EC, Article 31

Version number 10 Revision: 05.12.2015

Trade name: 985M Soldering Flux

Nitrogen oxides (NOx) Carbon dioxide (CO2) 5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

(Continued from page 2)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

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

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

67-63-0 Isopropanol

PEL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm TWA Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 980 mg/m³, 400 ppm WEL Short-term value: 1250 mg/m³, 500 ppm

L |Short-term value: 1250 mg/m³, 500 ppm |Long-term value: 999 mg/m³, 400 ppm

(Continued on page 4)

– GB





according to 1907/2006/EC, Article 31

Version number 10 Revision: 05.12.2015

Trade name: 985M Soldering Flux

(Continued from page 3)

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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

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:

Safety Glasses with Side Shields Required



Face Shield with Safety Glasses when refilling.

Body protection:



Apron

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Liauid

Colour:

Light yellow

Odour:

Alcohol-like

pH-value:

3

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 82 °C

Flash point:

18 °C

Ignition temperature:

225 °C

Self-igniting:

Product is not selfigniting.

Danger of explosion:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

(Continued on page 5)

– GB

Page 5/7



SAFETY DATA SHEET (SDS)

according to 1907/2006/EC, Article 31

Version number 10 Revision: 05.12.2015

Trade name: 985M Soldering Flux

(Continued from page 4)

Explosion limits:

Lower:

2.0 Vol %

Upper:

water:

12.0 Vol %

Vapour pressure at 20 °C:

43 hPa

Density at 20 °C:

0.81 g/cm³

Solubility in / Miscibility with

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Partly soluble.

Solvent content:

Organic solvents:

VOC Content 667 g/L

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: Strong acids, strong oxidizers.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50	values re	levant for c	lassification:
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67-63-0 Isopropanol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

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:

Irritant

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

(Continued on page 6)





according to 1907/2006/EC, Article 31

Version number 10 Revision: 05.12.2015 Printing Date: 07.05.2015

Tradename: 985M Soldering Flux

(Continued from page 5)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

IMDG, IATA

UN1219

3

14.2 UN proper shipping name

ADR, IMDG, IATA

14.3 Transport hazard class(es)

UN1219, ISOPROPANOL (ISOPROPYL ALCOHOL) mixture, 3, II

ADR, IMDG, IATA



3 Flammable liquids. Class

Label 14.4 Packing group

ADR, IMDG, IATA

14.5 Environmental hazards: Not applicable.

Marine pollutant: No

14.6 Special precautions for user Not applicable.

EMS Number: F-E.S-D

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

Limited quantities (LQ) **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

IMDG

Limited quantities (LQ) Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN1219, ISOPROPÁNOL (ISOPROPYL ĂLCOHOL) mixture, 3, II **UN "Model Regulation":**

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

All ingredients are listed on the following Government Inventories:

Inventory of Existing Chemical Substances in China (IECSC) China:

Korea Existing Chemicals List (ECL) Korea:

European Inventory of Existing Commercial Chemical Substances (EINECS) Europe:

(Continued on page 7)

(Continued from page 6)





SAFETY DATA SHEET (SDS)

according to 1907/2006/EC, Article 31

Version number 10 Revision: 05.12.2015

Trade name: 985M Soldering Flux

Inventory of Existing and New Chemical Substances (ENCS) Japan:

Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS)

TSCA (Toxic Substances Control Act) TSCA Inventory of Chemical Substances USA:

Labelling according to Regulation (EC) No 1272/2008

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Hazard pictograms





GHS02 GHS07

Signal word Danger **Hazard statements**

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Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves / eye protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/

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to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 Safety Data Sheet (SDS) 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 Safety Data Sheet (SDS) as a source for hazard information.

Department issuing MSDS: Product Compliance / EHS Department

Contact: EHS_Kester@kester.com 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)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

* Data compared to the previous version altered.

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