

According to 1907/2006/EC, Article 31

Reviewed on 04/07/2017 Printing Date 04/07/2017 Version number 8

1 PRODUCT AND COMPANY IDENTIFICATION

Trade name: 952-D6 Flux-Pen

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

Soldering Flux

Professional use of Solder

Application of the substance / the preparation: Soldering flux

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Kester Inc. 800 West Thorndale Avenue Itasca, IL 60143 USA Tel (630) 616-4000 Tel International 00 1 630 616-4000

ITW Specialty Materials (Suzhou) Co., Ltd. Heng Qiao Road Wujiang Economic Development Zone Suzhou, Jiangsu 215200 China Tel +86 512 82060808

Kester GmbH Ganghofer Strasse 45 D-82216 Gernlinden Germany Tel +49 (0) 8142 4785 0

Information department: Product Compliance: EHS Kester@kester.com

1.4 Emergency telephone number:

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

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 vapor.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.



GHS07

H332 Harmful if inhaled. Acute Tox. 4

Eve Irrit. 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Skin Sens. 1 STOT SE 3

H336 May cause drowsiness or dizziness.

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2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms







GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labeling:

Isopropanol methanol

4-methylpentan-2-one

Aliphatic ketone

Rosin

Hazard statements

H225 Highly flammable liquid and vapor.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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 / face protection.
P243 Take precautionary measures against static discharge.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

to do. Continue rinsing.

P405 Store locked up.

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

P403+P235 Store in a well-ventilated place. Keep cool.

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

Hazard description: WHMIS Symbols





Classification system: NFPA ratings (scale 0 - 4)



Health = 1 Fire = 3 Reactivity = 0

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HMIS-ratings (scale 0 - 4)



2.3 Other hazards

Results of PBT and vPvB assessment

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

3 COMPOSITION OF MIXTURE

Description: Mixture of the substances listed below with nonhazardous additions.

CAS No.	Description		% Range
CAS: 67-63-0 EINECS: 200-661-7	Isopropanol	Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	40-55%
CAS: 64-17-5 EINECS: 200-578-6	ethanol	♦ Flam. Liq. 2, H225	25-40%
Trade Secret	Aliphatic ketone	♦ Flam. Liq. 3, H226 ♦ STOT SE 3, H336	3.0-5.0%
CAS: 67-56-1 EINECS: 200-659-6	methanol	 ♦ Flam. Liq. 2, H225 ♦ Acute Tox. 2, H330 ♦ STOT SE 1, H370 	1-<3%
Trade Secret	Proprietary organic acids	◆ Eye Irrit. 2A, H319	1.0-3.0%
CAS: 108-10-1 EINECS: 203-550-1	4-methylpentan-2-one	 ♦ Flam. Liq. 2, H225 ♦ Acute Tox. 3, H331 ♦ Carc. 2, H351 ↑ Eye Irrit. 2A, H319; STOT SE 3, H335 	0.1-≤1%
Trade Secret	Rosin	Resp. Sens. 1, H334 Skin Sens. 1, H317 Acute Tox. 5, H303; Acute Tox. 5, H313	0.1-<1%

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.

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)

In case of fire, the following can be released:

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

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.

Absorb with clay, dry sand, or other inert material. Do not use combustible materials such as sawdust. Place in a chemical waste container.

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.

Protective Action Criteria for Chemicals

PAC-1:		
CAS: 67-63-0	Isopropanol	400 ppm
CAS: 64-17-5	ethanol	1,800 ppm
	Aliphatic ketone	5 ppm
CAS: 67-56-1	methanol	530 ppm
CAS: 108-10-	1 4-methylpentan-2-one	75 ppm
PAC-2:		
CAS: 67-63-0	Isopropanol	2000* ppm
CAS: 64-17-5	ethanol	3300* ppm
	Aliphatic ketone	200 ppm
CAS: 67-56-1	methanol	2,100 ppm
CAS: 108-10-	1 4-methylpentan-2-one	500 ppm
PAC-3:		
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 64-17-5	ethanol	15000* ppm
	Aliphatic ketone	3000* ppm
CAS: 67-56-1	methanol	7200* ppm
CAS: 108-10-	1 4-methylpentan-2-one	3000* ppm

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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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: Store away from oxidizing agents.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS:	67-63-0 Isopropanol
	Long-term value: 980 mg/m³, 400 ppm
	Short-term value: 1225 mg/m³, 500 ppm
	Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 984 mg/m³, 400 ppm
	Long-term value: 492 mg/m³, 200 ppm
	BEI The state of t
	64-17-5 ethanol
	Long-term value: 1900 mg/m³, 1000 ppm
	Long-term value: 1900 mg/m³, 1000 ppm
	Short-term value: 1880 mg/m³, 1000 ppm
	atic ketone
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm
	Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm
	Long-term value: 238 mg/m³, 50 ppm
	67-56-1 methanol
	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm
	Long-term value: 260 mg/m³, 200 ppm Skin
T1.\/	
ILV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm
	Skin; BEI
Prop	rietary organic acids
	Long-term value: 5 mg/m ³
CAS:	108-10-1 4-methylpentan-2-one
	Long-term value: 410 mg/m³, 100 ppm
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REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm TLV Short-term value: 307 mg/m³, 75 ppm

Long-term value: 82 mg/m³, 20 ppm

BEI

Additional information:

PEL = Permissible Exposure Limit (OSHA) TLV= Threshold Limit Value (ACGIH)

OSHA= Occupational Safety and Health Administration

ACGIH= American Conference of Governmental Industrial Hygienists

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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.

Breathing equipment:

When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

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

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
Color: Colorless
Odor: Alcohol-like

pH-value at 20 °C (68 °F): 3.3

Change in condition

Melting point/Melting range: Undetermined.

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SAFETY DATA SHEET (SDS) According to 1907/2006/EC, Article 31

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Boiling point/Boiling range: 78 °C (172 °F)

Flash point: < 23 °C (< 73 °F)

Ignition temperature: 399 °C (750 °F)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion limits:

Lower: 2.0 Vol % Upper: 15.0 Vol %

Vapor pressure at 20 °C (68 °F): 59 hPa (44 mm Hg)

Density at 20 °C (68 °F): 0.81 g/cm³ (6.759 lbs/gal)

Solubility in / Miscibility with

Water: Fully miscible.

Solvent content:

94.7 % Organic solvents: 2.0 % Water: Solids content: 3.5 %

10 STABILITY AND REACTIVITY

10.1 Reactivity No further relevant information available.

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:

When heated to soldering temperatures, solvents will be evaporated and organic matierial may release aliphatic aldehydes and acids.

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Harmful if inhaled.

LD/LC50	values tha	at are relevant for classification:	
CAS: 67-63-0 Isopropanol			
Oral	LD50	5045 mg/kg (rat)	
Dermal	LD50	12800 mg/kg (rabbit)	
Inhalative	LC50/4 h	30 mg/l (rat)	
CAS: 64-1	7-5 ethan	iol	
Oral	LD50	7060 mg/kg (rat)	
Inhalative	LC50/4 h	20000 mg/l (rat)	
CAS: 67-56-1 methanol			
Oral	LD50	5628 mg/kg (rat)	
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15800 mg/kg (rabbit) LD50 Dermal Inhalative LC50/4 h 0.5 mg/l (ATE)

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Primary irritant effect:

on the skin: Based on available data, the classification criteria are not met.

on the eye:

Causes serious eye irritation.

through inhalation:

Vapors during use may irritate mucous membranes and respiratory system. High concentrations can cause headache, dizziness, and nausea.

through ingestion: May cause gastrointestinal irritation.

Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction. Additional toxicological information:

Carcinogenic categories

•	carcinogenic (categories	
l.	ARC (Internat	ional Agency for Research on Cancer)	
	CAS: 67-63-0	Isopropanol	3
	CAS: 64-17-5	ethanol	1
	CAS: 108-10-1	4-methylpentan-2-one	2B
		Toxicology Program)	
1	None of the ing	redients is listed.	
(OSHA-Ca (Occ	cupational Safety & Health Administration)	
1	None of the ing	redients is listed.	

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.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:

Disposal must be made according to official regulations.

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

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

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> Alcohols, n.o.s. (Isopropanol, Ethanol) 1987 Alcohols, n.o.s. (Isopropanol, Ethanol)

ETHANOL (ETHYL ALCOHOL))

ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL),

ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL),

UN1987

ETHANOL)

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14 TRANSPORT INFORMATION

14.1 UN-Number

DOT, ADR, IMDG, IATA

14.2 UN proper shipping name

DOT **ADR**

IMDG

IATA

14.3 Transport hazard class(es)

DOT



Class

Label

3 Flammable liquids

3 Flammable liquids

Ш

No

33

ADR, IMDG, IATA



Class

Label

14.4 Packing group

DOT, IMDG, IĂTA

Marine pollutant: 14.6 Special precautions for user

Danger code (Kemler):

EMS Number: Stowage Category

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

F-E,S-D

Not applicable.

Not applicable.

Transport/Additional information:

DOT

Quantity limitations

On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

ADR

Excepted quantities (EQ)

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

IMDG

Limited quantities (LQ)

Excepted quantities (EQ)

1L

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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UN "Model Regulation":

UN 1987 ALCOHOLS, N.O.S. (ISOPROPANOL, ETHANOL), 3, II

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) Chină:

Korea: Korea Existing Chemicals List (ECL)

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

Japan:

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

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

USA The following information relates to product regulation specific to the USA.

SARA (Superfund Amendments and Reauthorization Act)

0 (0 a.p a			
Section 355 (ex	ktremely hazardous substances):		
None of the ingr	None of the ingredient is listed.		
Section 313 (Specific toxic chemical listings):			
CAS: 67-63-0	Isopropanol		
CAS: 67-56-1	methanol		
CAS: 108-10-1	4-methylpentan-2-one		
Chemicals kno	wn to cause cancer:		
4-methylpentan-	-2-one		
Chemicals known to cause reproductive toxicity:			
None of the ingredients is listed.			

Carcinogenic categories

EPA (Environmental Protection Agency)	ļ
CAS: 108-10-1 4-methylpentan-2-one	

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Workplace Hazardous Materials Identification (WHMIS):

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR) and the Safety Data Sheet (SDS) contains all of the information required by the CPR.

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms







GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labeling:

Isopropanol methanol

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4-methylpentan-2-one Aliphatic ketone

Rosin

Hazard statements

H225 Highly flammable liquid and vapor.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

H336 May cause drowsiness or dizziness.

Precautionary statements

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

P280 Wear protective gloves / eve protection / face protection. P243 Take precautionary measures against static discharge.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

to do. Continue rinsing.

Store locked up. P405

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

P403+P235 Store in a well-ventilated place. Keep cool.

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.

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 responsibilty 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.

Department issuing Safety Data Sheet (SDS): Product Compliance / EHS Department

Contact: EHS_Kester@kester.com

Date of preparation / last revision 04/07/2017 / 7

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

DOT: US Department of Transportation

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) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

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TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 5: Acute toxicity – Category 5
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.