

EU- Safety Data Sheet

Trade name: AK-1 Liquid flux

Product-Nr.:

Issued: 25.02.2003

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1. Chemical Identification

Tradename: **AK-1 Liquid Flux**

Manufacturer: Stannol GmbH
Oskarstr.3-7
42283 Wuppertal

Phone: Phone.: 0202 / 5850
0202 / 585118 sec.phone:-0202 / 585119

2. Composition/Information of Ingredients

Chemical characteristic: Solution of dicarboxylic acids in Isopropanol

Ingredients

Contents	CAS-Nr.	Symbols	Risk-Phrases	Chemical Name
>80%	67-63-0	F; Xi	11-36-67	Propan-2-ol
<10%	124-04-9	Xi	36	Adipinacid
<10%	109-59-1	Xn	10-20/21/22-36	Isopropylglycol

3. Hazards Identification:

Symbols



Highly flammable

R-phrases: 11
36
67



Irritant

Highly flammable
Irritant to eyes
Vapours can cause dizziness and drowsiness.

4. First Aid Measures:

General : If casualty is unconscious but breathing, place in the recovery position. If breathing has stopped apply artificial breathing or give oxygen by mask

Inhalation : Remove patient to fresh air..

Skin Contact : Wash hands with soap and water after contact. If any irritation resists, obtain medical attention.

Eye Contact: Flush **immediately** with plenty of water. seek medical attention.

Ingestion: Rinse mouth, drink plenty of water, avoid vomiting, seek medical attention.

Hints

Treatment: Decontamination, symptomatic treatment.

5. Fire Fighting Measures

Extinguishing Media: Suitable-dry chemical, carbon dioxide, water-spray or foam.
Use extinguishing media appropriate to surrounding fire conditions.

Special Fire-fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures:

Personal Protection: Keep away from sources of ignition, ventilate well spilled area.

Environmental protection: Do not let material spill into drains.

Procedure for cleaning: Pick up with absorbent material

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7. Handling and Storage:

Safe Handling: Ensure the area is well ventilated. Avoid inhaling the flux vapours and fumes.
Fire and explosion protection: The product is highly flammable, avoid concentration of vapours.
Requirements for storage Storage area must be suitable for flammable liquids ensure sufficient ventilation.
Further storage conditions: Keep container tightly closed.

8. Exposure Controls / Personal Protection:

Local exhaust or dilution ventilation and control of process conditions are suitable methods. Where engineering controls and work practises are not effective in controlling exposure then suitable respiratory protective equipment should be used.

Substance	CAS-Nr	ml/m ³ (ppm)	mg/m ³	Art
Propan-2-ol	67-63-0	200	500	MAK (DFG)
Isopropoxyethanol	109-59-1	5	22	MAK (DFG)

Skin-resorption:

H

Respiratory Protection: Necessary if there is a risk of exposure to high concentration of solvent vapours or flux fumes

Hand Protection:

Avoid skin-contact.

We recommend protective gloves according DIN EN 420 of following material::

Glove material: nitrile rubber

Layer thickness: 0,40 mm

Breakthrough time: >480 Min.

One-way-gloves:

Glove material: nitrile rubber

Layer thickness: 0,11mm

Breakthrough time: 10 Min.

The gloves protect temporary (dependant of work). Avoid a long contact and remove the material after wetting and wash up the gloves.

The protective gloves to be used must comply with the specifications EC directive 89/686/EEC and the resultant standard EN374; for example Camatriil 730. or Dermatriil 740(one-way gloves) from KCL. The breakthrough times stated above were determined by KCL in laboratory tests acc. To EN374 with samples of the recommended glove types.

This recommendation applies only to the product: Isopropanol

When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 374 please contact the supplier of CE-approved gloves.(e.g.. KCL GmbH, D-36124 Eichenzell, or www.kcl.de)

Eye Protection:

Operators should wear goggles or a face shield when transferring the liquids or at any other time where there is a risk of splashing

9. Physical and Chemical Properties

Appearance:	Colour:	Liquid clear	Odour:	alcoholic
Flashpoint (cc):	at	13 °C		
Ignition temperature:	at	425 °C		
Vapour pressure:	at	20 °C	40 mbar	
Density:	at	20 °C	0,810 g/ml	
Boiling point:	at	1013 mbar	ab 82 °C	
Solubility in water:	at	20 °C	miscible mg/l	
Solubility in organic solvents (at 20 °C)				
In alcohol unlimited soluble				
Explosion limits:	lower	2	Vol.-%	
	upper	12	Vol.-%	
Dynamic Viscosity:	at	20 °C	n.b. mPas	

10. Stability and Reactivity:

Incompatibilities

Protect from strong oxidising agents.

Hazardous combustion or decomposition products:

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11. Toxicological Information

Acute Effects:

Causes skin irritation.
May be harmful if absorbed through the skin.
May be harmful if inhaled.
Harmful if swallowed.

Toxicity Data: refer to main component

Type	mg/Kg		Species
LD.50	>4000	oral	Rat

12. Ecological Information:

General Information:: Volatile organic compounds: VOC >80 %

13. Disposal Considerations:

Contact a licensed professional waste disposal service to dispose of this material.
Observe all federal, state and local environmental regulations.

14. Transport Information:

GGVS/ADR/RID:	Class	3	F1
	UN-Nr.:	1219	Kemlerzahl:33
	Packaging group:	II	

Shiptransport IMDG:	Technical shipping name:	Isopropanol, Isopropylalcohol	
	Class:	3	Ziffer:2
	IMDG-Code:	3.2	EMS-Nr.:3-06
	M.-Pollutant:	no	MFAG- Tafel:305

Airtransport IATA:	Propper Shipping Name:	Isopropanol(Isopropylalcohol)		
	Class:	3	Ziffer:2	Packaging group: II
	Propper Shipping Name:	Isopropanol(Isopropylalcohol)		

15. Regulatory Information:

Labelling: This product has been classified and labelled according to EC regulations.
R-phrases: 11 Highly flammable
36 Irritant to eyes
67 Vapours can cause dizziness and drowsiness.

Hazard symbols



Highly flammable



Irritant

S-phrases: 7 Keep container tightly closed.
16 Keep away from sources of ignition. – No smoking
23 Do not breathe fumes, vapour, spray
24/25 Avoid contact with eyes and skin.

German regulations:

VbF: B
WGK: WGK 1
TA Luft: organische Stoffe Klasse III: Max. zulässige Emission: 0,15 g/m³ (Massenstrom >= 3 kg/h)

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16. Other Information:

Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide..

Safety data-sheet is written by:

Stannol GmbH

Contact-person:

Dr. W. Kruppa