EC Safety Data She	et according to Directive 19	07/2006	
Trade name: Liquid Flux X			
Date of issue: 10.07.2002	Revised on: 21.07.2011	Date of print: 21.07.20	Page: 1(4)
		Duto of print. 21.07.20	
I. Name of product, ch	aracterization and con	ipany name	
Information on the produ	ct		
Trade name: Usage of the product / preparat	tion Liquid Flux)		
Identification of the man		oldening	
Address:	Stannol GmbH		
	Oskarstr. 3 -7 42283 Wuppertal		
Phone: Fax:	0202 585 0 0202 585 155		
Emergency call: E-mail:	0202 585 119 (only during tradir werner.kruppa@stannol.de	ng hour(8:00 h – 17:00 h)	
2. Possible hazards:			
Danger symbols			
	×I		
Highly flammable	Irritating		
R-phrases: 11	Highly flammable		
36 67	Irritates eyes Vapours can cause sleepiness		
Additional hazards for human h Irritates eyes Vapours can cause sleepiness ar Composition/Informa	nd daze	<u>its</u>	
Irritates eyes Vapours can cause sleepiness ar Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No. >90% 67-63-0	nd daze ation on the componer n of dicarbon acid, div. Additives in I EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi	sopropylalcohol R-phrases: Substan 11-36-67 Propan-2	-ol
Irritates eyes Vapours can cause sleepiness ar B. Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No.	ation on the componer n of dicarbon acid, div. Additives in EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi n.a. Xi	sopropylalcohol R-phrases: Substan 11-36-67 Propan-2 36 Dicarbon	-ol acid
Irritates eyes Vapours can cause sleepiness ar B. Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No. >90% 67-63-0	nd daze ation on the componer n of dicarbon acid, div. Additives in I EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi	sopropylalcohol R-phrases: Substan 11-36-67 Propan-2 36 Dicarbon	-ol acid
Irritates eyes Vapours can cause sleepiness ar 3. Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No. >90% 67-63-0 1-5% n.a.	ation on the componer n of dicarbon acid, div. Additives in EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi n.a. Xi	sopropylalcohol R-phrases: Substan 11-36-67 Propan-2 36 Dicarbon	-ol acid
Irritates eyes Vapours can cause sleepiness ar 3. Composition/Informa Chemical characterization: Solution Composition according to E Contents CAS No. >90% 67-63-0 1-5% n.a.	nd daze ation on the componer n of dicarbon acid, div. Additives in l C 1907/2006: EINECS No. Symbols 200-661-7 F; Xi n.a. Xi The wording of the R-phrases a Remove contaminated of	sopropylalcohol R-phrases: Substam 11-36-67 Propan-2 36 Dicarbon stated is indicated in Section 1 clothing immediately.	-ol acid 6
Irritates eyes Vapours can cause sleepiness ar 5. Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No. >90% 67-63-0 1-5% n.a. 5. First Aid measures General information: After inhalation: After skin contact:	ation on the componer n of dicarbon acid, div. Additives in EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi n.a. Xi The wording of the R-phrases s Remove contaminated of Keep the person quiet, t Wash with plenty of wat	sopropylalcohol R-phrases: Substan 11-36-67 Propan-2 36 Dicarbon stated is indicated in Section 1 clothing immediately. ake to the fresh air and seek me er and soap.	-ol acid 6 dical aid.
Irritates eyes Vapours can cause sleepiness ar 3. Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No. >90% 67-63-0 1-5% n.a. 4. First Aid measures General information: After inhalation: After skin contact: After eye contact:	ation on the componer n of dicarbon acid, div. Additives in EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi n.a. Xi The wording of the R-phrases a Remove contaminated of Keep the person quiet, f Wash with plenty of wat Flush eyes with plenty of remove contact lenses).	R-phrases: Substand 11-36-67 Propan-2 36 Dicarbon stated is indicated in Section 1 clothing immediately. ake to the fresh air and seek mean er and soap. f flowing water holding eye lids a	-ol acid 6 dical aid. apart (protect the uninjured eye,
Irritates eyes Vapours can cause sleepiness ar 5. Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No. >90% 67-63-0 1-5% n.a. 5. First Aid measures General information: After inhalation: After skin contact:	ation on the componer n of dicarbon acid, div. Additives in EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi n.a. Xi The wording of the R-phrases a Remove contaminated of Keep the person quiet, f Wash with plenty of wat Flush eyes with plenty of remove contact lenses).	R-phrases: Substand 11-36-67 Propan-2 36 Dicarbon stated is indicated in Section 1 clothing immediately. ake to the fresh air and seek meen and soap. f lowing water holding eye lids a	-ol acid 6 dical aid. apart (protect the uninjured eye,
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Irritates eyes Vapours can cause sleepiness ar 3. Composition/Information: Composition according to E Contents CAS No. >90% 67-63-0 1-5% n.a. 4. First Aid measures General information: After inhalation: After skin contact: After eye contact: After ingestion: Physician's information Treatment: 5. Fire fighting measures Suitable extinguishing media:	Ad daze Attion on the componen and daze attion on the componen and dicarbon acid, div. Additives in attice the second sec	sopropylalcohol R-phrases: Substand 11-36-67 Propan-2 36 Dicarbon stated is indicated in Section 1 clothing immediately. ake to the fresh air and seek meer and soap. f flowing water holding eye lids a ly and drink plenty of water. See nent of symptoms.	-ol acid 6 dical aid. apart (protect the uninjured eye,
Irritates eyes Vapours can cause sleepiness ar 3. Composition/Informa Chemical characterization: Solutio Composition according to E Contents CAS No. >90% 67-63-0 1-5% n.a. 4. First Aid measures General information: After inhalation: After skin contact: After eye contact: After ingestion: Physician's information Treatment: 5. Fire fighting measures	Ad daze Ation on the componen n of dicarbon acid, div. Additives in EC 1907/2006: EINECS No. Symbols 200-661-7 F; Xi n.a. Xi The wording of the R-phrases a Remove contaminated of Keep the person quiet, 1 Wash with plenty of wat Flush eyes with plenty of remove contact lenses). Rinse mouth immediate Decontamination, treatm ES Powder, foam, CO ₂ ; wa for fire fighting	sopropylalcohol R-phrases: Substanding 11-36-67 Propan-2 36 Dicarbon stated is indicated in Section 1 clothing immediately. ake to the fresh air and seek meand soap. f flowing water holding eye lids a ly and drink plenty of water. See hent of symptoms.	-ol acid 6 dical aid. apart (protect the uninjured eye,
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EC Safety Data S						
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6. Accidental release	moseuroe					
Personal precautions:		thing apparatus	if exposed to v	apours/dust/aerosols	s (solder fume)	
Environmental precautions Methods for cleaning up:	: Do not allo	w to enter drain	s/surface water	groundwater.	binding agent) and di	spose.
7. Handling and stor	rage					
Advice on safe handling:	Provide su vapours/a		entilation, install	local exhaust ventila	ation, if necessary. Av	void formation of
Fire and explosion protect Fire class:	B (combu	uct is highly flam stible liquid med		ecautionary measure	es against static discl	harges.
Storage class according to Requirements for storage and containers:		lequate ventilat	ion of the storag	e area.		
Further information on sto conditions:			sed and in a we ween +5 °C and		way from ignition and	I heat sources,
3. Exposure controls	and perso	nal protec	tion			
Additional information on s Provide sufficient ventilation.	ystem design:					
Substances with limit value						
Danger to health at the wor Peak limit category:	king place:					
Working place limit va Product name CAS No.	ml/m ³ (ppm)		Туре			
Propan-2-ol 67-63-0 Working place limit v Product name CAS No.	200 alues accordii	500 ng to EH40/2		MAK (E JK:	,	
	200 alues accordii	500 ng to EH40/2 n) mg/m³	2005 of the	MAK (E JK: ml/m³ (ppm)		ference period
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / Sensitization	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti	500 ng to EH40/2 n) mg/m ³ 8h TWA re 999	2005 of the eference period	MAK (E JK: ml/m³ (ppm)	DFG) Mg/m ³ 15 min STEL re 1250	ference period
Working place limit v Product nameCAS No.Propan-2-ol67-63-0	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures	500 ng to EH40/2 n) mg/m³ 8h TWA re 999 on H (Isoprop	2005 of the eference period	MAK (E JK: ml/m ³ (ppm) 500	DFG) Mg/m ³ 15 min STEL re 1250	ference period
Working place limit v Product name CAS No. Propan-2-ol 67-63-0 Skin resorption / Sensitizat General protection and hyg Avoid direct contact with eyes Personal protection	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth	500 ng to EH40/2 n) mg/m³ 8h TWA re 999 on H (Isoprop hing.	2005 of the eference period 9 anol)	MAK (E JK: ml/m ³ (ppm) 500	DFG) Mg/m ³ 15 min STEL re 1250	ference period
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / SensitizatGeneral protection and hyg Avoid direct contact with eyes	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth Respiratory protect Avoid skin contac	500 ng to EH40/2 n) mg/m ³ 8h TWA re 999 on H (Isoprop hing. ction: particle fil t.	2005 of the eference period anol) ter.	MAK ([JK: ml/m³ (ppm) 500 Sensitization:	DFG) Mg/m³ 15 min STEL re 1250 :	
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / SensitizatGeneral protection and hyg Avoid direct contact with eyesPersonal protection Respiratory protection:	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth Respiratory protect Avoid skin contac	500 ng to EH40/2 n) mg/m ³ 8h TWA re 999 on H (Isoprop hing. ction: particle fil t.	2005 of the eference period anol) ter.	MAK ([JK: ml/m³ (ppm) 500 Sensitization:	DFG) Mg/m ³ 15 min STEL re 1250	
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / SensitizatGeneral protection and hyg Avoid direct contact with eyesPersonal protection Respiratory protection:	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth Respiratory protect Avoid skin contac	500 ng to EH40/2 n) mg/m ³ 8h TWA re 99 on H (Isoprop hing. ction: particle fil t. cording to DIN E fety glove: glove material:	2005 of the leference period 9 anol) ter. EN 420 of the fo	MAK ([JK: ml/m³ (ppm) 500 Sensitization:	DFG) Mg/m³ 15 min STEL re 1250 :	
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / SensitizatGeneral protection and hyg Avoid direct contact with eyesPersonal protection Respiratory protection:	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth Respiratory prote Avoid skin contac A safety glove acc Material of the sat Thickness of the g	500 ng to EH40/2 n) mg/m ³ 8h TWA re 999 on H (Isoprop hing. ction: particle fil t. cording to DIN E fety glove: glove material: e:	2005 of the leference period 9 anol) ter. EN 420 of the for nitrile rubber 0.40 mm	MAK ([JK: ml/m³ (ppm) 500 Sensitization:	DFG) Mg/m³ 15 min STEL re 1250 :	
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / SensitizatGeneral protection and hyg Avoid direct contact with eyesPersonal protection Respiratory protection:	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth Respiratory protect Avoid skin contac A safety glove acc Material of the sat Thickness of the g Breakthrough time	500 ng to EH40/2 n) mg/m ³ 8h TWA re 999 on H (Isopropending) hing. ction: particle fill t. cording to DIN E fety glove: glove material: e: ve: fety glove: glove material:	2005 of the leference period 9 anol) ter. EN 420 of the for 0.40 mm >480 min.	MAK ([JK: ml/m³ (ppm) 500 Sensitization:	DFG) Mg/m³ 15 min STEL re 1250 :	
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / SensitizatGeneral protection and hyg Avoid direct contact with eyesPersonal protection Respiratory protection:	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth Respiratory protect Avoid skin contac A safety glove acc Material of the sai Thickness of the g Breakthrough time Throw-away glove Material of the sai Thickness of the g Breakthrough time	500 ng to EH40/2 n) mg/m ³ 8h TWA re 999 on H (Isoprop hing. ction: particle fil t. cording to DIN E fety glove: glove material: e: ve: fety glove: glove material: e: provides protect	2005 of the leference period 9 anol) ter. EN 420 of the for 0.40 mm >480 min. nitrile rubber 0.11 mm 10 min. tion which is lim	MAK ([JK: ml/m³ (ppm) 500 Sensitization:	Mg/m ³ 15 min STEL re 1250 : uld be used as hand j uld be used as hand j	protection:
Working place limit v Product nameCAS No.Propan-2-ol67-63-0Skin resorption / SensitizatGeneral protection and hyg Avoid direct contact with eyesPersonal protection Respiratory protection:	200 alues accordin ml/m³ (ppm 400 ion: Skin resorpti iene measures s, the skin and cloth Respiratory protect Avoid skin contact A safety glove accord Material of the sai Thickness of the g Breakthrough time Throw-away glov Material of the sai Thickness of the g Breakthrough time The safety glove p times and remove The individual saf EN374. We recon times stated abov laboratory measu This informatic Please contact the	500 ng to EH40/2 n) mg/m ³ 8h TWA re 999 on H (Isoprop hing. ction: particle fil t. cording to DIN E fety glove: glove material: e: ve: fety glove: glove material: e: provides protect a the substance fety gloves must nemend to use C re were determing rements of the of on is valid for e supplier of CE	2005 of the leference period 9 anol) ter. EN 420 of the for nitrile rubber 0.40 mm >480 min. nitrile rubber 0.11 mm 10 min. tion which is lim from the glove left camatril 730 from ned with materia company KCL a r: isopropano E-approved glov	MAK ([JK: ml/m³ (ppm) 500 Sensitization: llowing material show ted in time (depende by wiping or rinsing of e specifications of th n KCL or Dermatril 7 al samples of the rec ccording to EN374. I es (e.g. KCL GmbH,	Mg/m ³ 15 min STEL re 1250 : uld be used as hand j uld be used as hand j	protection: void longer contact 6/EEC and the sta a). The breakthrou tection types duri or www.kcl.de), if

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9. Physical and chemical properties

Form:	Form:		liquid		
	Colour:		colourless	Odour:	similar to alcohol
Flash point (cc):	at	12 °C			
Ignition temperature:	at	>400 °C			
Vapour pressure:	at	20 °C	40 mbar		
Density:	at	20 °C	0,795 g/ml		
Boiling point:	at	1013 mbar	>82 °C		
Solubility in water:	at	20 °C	miscible mg/l		
Solubility in organic solver	nts (at 20 °C)				
Miscible with most organic so	olvents. Fully mi	scible in alcohol			
Explosion limits:	lower	2	Vol%		
Explosion limits:	upper	12	Vol%		

10. Stability and reactivity

Reaction with substances:Affects various metalsReaction with:Strong oxidizing media

11. Toxicological information

The toxicological classification of the product is based on the results of the calculation procedure of the general preparation directive 1999/45/EC.

Acute toxic	ity: referred to isoprop	anol	
Туре	Value in mg/kg	Kind of administration	Species
LD50	5050	oral	Rat
LD50	6410	oral	Rabbit
LD50	4475	oral	Mouse

Further inhalative toxicological data:

LC50	72,6 mg/l	Rat	4h exposure time
LC50	46.6 mg/l	Rat	8h exposure time
Irritant effect o Irritant effect o		Irritant effect Irritant effect	
Sensitization:		Sensitization r	not known

12. Ecological information

General information:

ion: Volatile organic compound: VOC: ca 90 %

These information apply to the main component: Isopropanol

Biodegradation: Readily biodegradadable Biodegradability: 95%/21d Modified OECD Screening Test. Ecotoxicity: Biological effect: Toxic to fishes and aquatic organisms. Does not affect sewage clarification according to current knowledge if applied as intended. Fish toxicity: LC50: 9640 mg/l/96h (Pimephales promelas) Daphnia toxicity: EC50: 13299 mg/l/48h (Daphnia magna) Algae toxicity: IC50: >1000 mg/l/72h (Scenedesmus subspicatus) Lethal limit concentration: Algae toxicity: IC5: 1800 mg/l/8d (Scenedesmus quadricauda) Further information about ecology: ThSB: 2,40g/g. BSB 49% of ThSB/5d. CSB: 96% of THSB.

13. Disposal considerations

Disposal information	
Product:	Dispose off as special waste
Further information:	Disposal only by authorized waste disposal company
Waste identity number:	Waste identity number EAK-code: 140603 (solvents and mixtures)

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14. Transport informat	tion		
			- ; - (
Transport GGVSEB/ADR:	Class: UN-No.:	3 1219	Figure: F1 Kemler number: 33
	Packing group:	II	
	Hazard label: Limited quantity:	3 1L	
	Tunnel-restriction-code:	2 (D/E)	
See abin transport IMDC:	Proper shipping name: Class:	Isopropanol (isopropyl alcohol) 3	
Sea-ship transport IMDG:	IMDG code:	3	EMS-No.:F-E S-D
	Marine pollutant:	No	MFAG: 305
	Hazard label:	3	
Air transport IATA:	Proper shipping name: Class:	Isopropanol (isopropyl alcohol) 3	
· · · · · · · · · · · · · · · · · · ·	Hazard label:	3	
	Proper shipping name:	Isopropanol (isopropyl alcohol)	
5. Legal regulations:			
Labelling information:	The product is classified and	d labelled according to the EC Directiv	es.
R-phrases: 11	Highly flammable		
36 67	Irritates the eyes Vapours can cause sleepiness	and daza	
Danger symbols	vapours can cause sicepiness		
Highly flammable	Irritating		
S-phrases: (2)	Keep out of reac		
7 16	Keep container ti Keep away from	sources of ignition – No smoking.	
23	Do not breathe fu	umes, vapour, spray	
24/25	Avoid skin and e	ye contact.	
Classification according to the	EC Directive: R11; Xi; R36; R6	37	
National regulations:	WGK 1 (weakly y	water-endangering)	
Water hazard class: Solvent ordinance (31.BimSch	V) VOC weight cont	water-endangering) tent ca. 90% (calculated)	
Water hazard class: Solvent ordinance (31.BimSch Ordinance on major accidents	V) VOC weight cont (12.BimSchV)		
Water hazard class: Solvent ordinance (31.BimSch Ordinance on major accidents Classification VbF:	V) VOC weight cont (12.BimSchV) B		eptable Emission50
Water hazard class: Solvent ordinance (31.BimSch Ordinance on major accidents Classification VbF: Classification according to the	V) VOC weight cont (12.BimSchV) B TA Luft: Organic materials mg/m^3 (mass-file	tent ca. 90% (calculated)	eptable Emission50
Water hazard class: Solvent ordinance (31.BimSch Ordinance on major accidents Classification VbF:	V) VOC weight cont (12.BimSchV) B TA Luft: Organic materials	tent ca. 90% (calculated) s; whole-carbon-concentration: Max. acc	eptable Emission50
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