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1. Designation of Substan	1. Designation of Substance/Composition and Company		
Product name	KAIFLEX glue 414, 2.200 Gramm		
Designated use of substance/of Composition	Glue		
Manufacturer/Supplier	KAIMANN GmbH Hansastraße 2-5 • 33161 Hövelhof • GERMANY Tel.: +49 5257 98 50 - 0 • Fax.: +49 5257 98 50 - 590		
Information regarding Safety-Data-Sheet	Tel.: +49 5257 98 50 - 300 • Fax: +49 5257 98 50 - 625 msds@kaimann.de		
Emergency information	Advice Centre for Toxicological Symptoms and Embryonic Toxicology (Toxicological Emergency Number Berlin) Tel.: +49 30 19 24 - 0 · www.giftnotruf.de		

2. Possible Risks	
Classification of substance or mixture	The product is classified and labelled according to respective EC-Directives.
(Directive 67/548/EEC and 1999/45/EC respectively)	F;R11·N;R51/53·Xi;R36·R38·R67
Labelling elements	The product is classified and labelled according to EC-Directives or respective national legislation.
Labelling according to Regulation (EC) 1272/2008 [CLP]. Hazard pictograms	Hazard Attention
Hazard warning	 H225 Liquid and vapour highly flammable. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness and dizziness. H411 Toxic to aquatic organisms, long term effects.
Safety warning	P210 Keep away from heat/sparks/hot surfaces. Do not smoke. P303 + P361 + P353 In case of SKIN or HAIR contact remove contaminated clothing immediately and rinse skin thoroughly with water. P 305 + P351 + P338 In case of EYE CONTACT rinse carefully with water for several minutes. If possible remove contact lenses. Continue to rinse. P370 + P378 In case of fire use extinguishing powder or sand to extinguish. P403 + P233 Keep containers tightly sealed and store in a well-aired, cool place. P501 Dispose of content/container via incineration plant. Additional information Contains balm resin. May cause allergic reactions.
Labelling elements	

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(Directive 67/548/EEC and 1999/45/EC respectively)	F: highly flammable
Code letters and hazard designation	Xi ; irritant N ; environmental hazard
R-phrases	
•	 Highly flammable. Toxic to aquatic organisms. May cause long-term adverse effects in an aquatic environment. Irritating to eyes and skin.
S-phrases	67 Vapours may cause drowsiness and dizziness.
3-ріпазез	16 Keep away from sources of ignition and open flame. Do not smoke. 23 Do not inhale vapours. 33 Take precautionary measures against static discharge. 37 Wear suitable protective gloves. 51 Use in well-ventilated areas only. 57 In order to avoid environmental contamination use suitable containers.
Particular labelling specific mixtures	Contains balm resin. May cause allergic reactions.
Specific hazards for humans and the environment*	On the basis of the calculation methods of the "General Classification Guidelines for Preparations of the EC" (First Council and European Parliament Directive 1999/45/EC) in its current version product is associated with the following hazards: Has a narcotizing effect.
Classification System	Classification complies with current EC-lists (First Council Directive 67/548/EEC) supplemented by data from technical literature and company details.
Other hazards	Results of PBT- and vPvB-Assessment PBT: not applicable vPvB: not applicable.
Additional information	None

3. Composition/Component	Data		
Mixtures Hazardous ingredients			
ETHYL ACETATE	Registration Number (EC)	01-2119475103-46	
	EINECS 205-500-4	CAS-No. 141-78-6	Percentage: 25 - < 50%
		F ; R11 Xi ; R36 R67 R Flam. Liq. 2 ; H225 Eye	66 e Irrit. 2 ; H319 STOT SE 3 ; H336
ACETONE	Registration Number (EC)	01-2119471330-49	

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	EINECS 200-662-2	CAS-No. 67-64-1 Percentage: 2.5 - < 5%
		F ; R11 Xi ; R36 R67 R66 Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336
HYDROCARBON MIXTURE	Registration Number (EC) 01-2119486291-36
	EC-No. 926-605-8	CAS-No. 64742-49-0 Percentage: 20 - < 25%
		F; R11 Xi; R38 R67 R66; Xn R65 Flam. Liq. 2; H225; Asp. Tox. 1, H304; Aquatic Chronic. 2; H411; Skin. Irrit.2, H315; STOT SE 3; H336
INDUSTRIAL SPIRIT	Registration Number (EC) 01-2119475515-33
	EC-No. 927-510-4	CAS-No. 92045-53-9 Percentage: 10 - < 15%
		F; R11 Xi; R38; Xn R65; N R51/53; R67 Flam. Liq. 2; H225; Asp. Tox. 1, H304; Aquatic Chronic. 2; H411; Skin. Irrit.2, H315; STOT SE 3; H336
HYDROCARBON MIXTURE	Registration Number (EC) 01-2119484651-34
	EC-No. 931-254-9	CAS-No.64742-49-0 Percentage: 5 - < 10%
		F; R11 Xi; R38 R67; Xn R65; N R51/53 Flam. Liq. 2; H225; Asp. Tox. 1, H304; Aquatic Chronic. 2; H411; Skin. Irrit.2, H315; STOT SE 3; H336
HYDROCARBON MIXTURE	Registration Number (EC) 01-2119486291-36
	EC-No. 926-605-8	CAS-No. 92062-15-2 Percentage: 2.5 - < 5%
		F; R11; Xn R65; N R51/53; R66-67 Flam. Liq. 2; H225; Asp. Tox. 1, H304; Aquatic Chronic. 2; H411; STOT SE 3; H336
BALM RESIN	Registration Number (EC) 01-2119480418-32
	EINECS-No. 232-475-7	CAS-No. 8050-09-7 Percentage: 0.3 - < 0.5%
		Xi ; R43 Skin. Sens.1, H317
n-HEXAN	EINECS-No. 202-777-6	CAS-No.110-54-3 Percentage: 0.1 - < 0.3%
		F; R11; Xn R48/20-62-65; N R51/53; R67; Xi R38 Flam. Liq. 2; H225; Repr. 2, H361f; STOT RE2, H373; Asp. Tox. 1, H304; Aquatic Chronic. 2, H411; STOT SE 3; H336
	Wording of quoted hazard	d warnings is outlined in section 16.

4. First-Aid Measures	
General information	Supply fresh air.
After inhalation	In case of unconsciousness place and transport patient in recovery position (stable sideways position).

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After skin contact After eye contact	Supply fresh air. In case of symptoms seek medical advice. Wash off using soap and water immediately, rinse thoroughly. Rinse eyes under running water several times. If symptoms persist, consult a doctor
After ingestion	Call a doctor immediately. Do not induce vomiting.
Most important symptoms and effects both acute and delayed	None known.
Indication to immediate medical attention and specific treatment	Risk of product entering lungs in case of ingestion and vomiting respectively.

5. Fire-Fighting Measures	
Suitable extinguishing agents	CO ₂ extinguishing powder and water jets. For bigger fires use water jet and alcohol resistant foam.
For safety reasons unsuitable extinguishing agents	Full water jet
Specific hazards By substance or composition, its combustion products or resultant gases	May form explosive vapour-air-mix. Toxic gases may form upon heating and in the event of fire.
Fire-fighting measures	Particular protective measures: Wear self-contained respirator. Do not inhale explosive and combustion gas.
Additional information	None

Personal precautions, protective measures and emergency procedures	Use personal protective clothing.
Environmental precautions	Keep from entering waters, sewage systems, pits and cellars. In the event of product entering waters or sewage systems notify appropriate authorities. Contain spread of spillage by available means such as oil barriers for example.
Cleaning/Removal measures	Remove with absorbent material (sand, diatomaceous earth, acid- or universal-binding agent, sawdust). Ensure sufficient ventilation.
Reference to other sections	Information in regards to safe handling see section 7. Information in regards to personal protective equipment see section 8. Information in regards to disposal see section 13.
Additional information	None

7. Handling and Storage

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Handling/Information	Store cool and dry in well sealed containers.
for safe handling	Ensure sufficient ventilation/extraction at the workspace.
•	Open and handle containers carefully.
Information regarding prevention of	Keep away from sources of ignition and open flame. Do not smoke.
fire and explosion	Take precautionary measures against static discharge.
	Use in hazard proof (explosion) areas only.
	Highly volatile and flammable components are released upon processing.
	Vapours and air may form explosive mixture.
	Flammable mixtures may form in emptied containers.
Safe storage conditions allowing for	
incompatibilities	
Requirements to storage areas and	Store in a well aired, cool place.
containers	
	Not required
Information on combined storage	
Further particulars	Keep container tightly sealed.
regarding storage conditions	Store cool and dry in well-sealed containers.
	Storage class: 3
Classification according to	Highly flammable.
Industrial Safety Regulations	
(BetrSichV)	
Specifics in regards to final	No further relevant information available.
applications	

8. Restriction of Ingestion and Personal Protection		
Control parameter		
ETHYL ACETATE (CAS-No. 141-78-6)	OELV: Class: Remarks:	400 ml/m³/1500 mg/m³, long term value 2(I) DFG, Y
INDUSTRIAL SPIRIT (CAS-No. 92045-53-9)	RCP-TWA:	1500 mg/m³, long term value
HYDROCARBON MIXTURE (CAS-No. 64742-49-0)	RCP-TWA:	1500 mg/m³, long term value
HYDROCARBON MIXTURE (CAS-No. 92062-15-2)	RCP-TWA:	115 ml/m³, 400 mg/m³, long term value
ACETONE (CAS-No. 67-64-1)	OELV: Class: Remarks:	500 ml/m³/1500 mg/m³, long term value 2(I) DFG, EU*
DNEL employees		
ETHYL ACETATE (CAS-No. 141-78-6)	DNEL Dermal: Inhalative:	DNEL w 63 mg/kg bw/day (long term, systemic effect) DNEL w 1468 mg/m³ (acute, local effect) DNEL w 1468 mg/m³ (acute, systemic effect) DNEL w 734 mg/m³ (long term, local effect) DNEL w 734 mg/m³ (long term, systemic effect)

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INDUSTRIAL SPIRIT DNEL (CAS-No. 92045-53-9) Dermal: DNEL w 300 mg/kg bw/day (long term, systemic effect) Inhalative DNEL w 2085 mg/m³ (acute, systemic effect) HYDROCARBON MIXTURE DNEL (CAS-No. 64742-49-0) Dermal: DNEL w 25.9 mg/kg bw/day (long term, systemic effect) DNEL w 3.25 mg/m³ long term, systemic effect) Inhalative: Dermal: DNEL w 13964 mg/kg bw/day (long term, systemic effect) Inhalative: DNEL w 5306 mg/m³ (long term, systemic effect) HYDROCARBON MIXTURE DNEL (CAS-No. 92062-15-2) DNEL w 13964 mg/kg bw/day (long term, systemic effect) Dermal: Inhalative: DNEL w 5306 mg/m³ (long term, systemic effect) Consumer **ETHYL ACETATE DNEL** (CAS-No. 141-78-6) Oral: DNEL c 4.5 mg/kg bw/day (long term, systemic effect) Dermal: DNEL c 37 mg/kg bw/day (long term, systemic effect) DNEL c 734 mg/m³ (acute, local effect) Inhalative: DNEL c 734 mg/m³ (acute, systemic effect) DNEL c 367 mg/m³ (long term, local effect) DNEL c 367 mg/m³ (long term, systemic effect) **DNEL** INDUSTRIAL SPIRIT (CAS-No. 92045-53-9) Oral: DNEL c 149 mg/kg bw/day (long term, systemic effect) Dermal: DNEL c 149 mg/kg bw/day (long term, systemic effect) Inhalative: DNEL c 477 mg/m³ (long term, systemic effect) HYDROCARBON MIXTURE **DNEL** (CAS-No. 64742-49-0) Oral: DNEL c 1301 mg/kg bw/day (long term, systemic effect) Dermal: DNEL c 1377 mg/kg bw/day (long term, systemic effect) Inhalative: DNEL c 1137 mg/m³ (long term, systemic effect) HYDROCARBON MIXTURE DNEL DNEL c 1301 mg/kg bw/day (long term, systemic effect) (CAS-No. 92062-15-2) Oral: Dermal: DNEL c 1377 mg/kg bw/day (long term, systemic effect) DNEL c 1,131 mg/m³ (long term, systemic effect) Inhalative: PNEC* **ETHYL ACETATE PNEC** (CAS-No. 141-78-6) Oral: PNEC oral 0.2 mg/kg food (n.a.) PNEC sediment 1.25 mg/kg (sediment, fresh water) PNEC sediment 0.125 mg/kg (sediment, sea water) PNEC soil 0.24 mg/kg (soil) PNEC water 0.26 mg/l (fresh water) PNEC water 1.65 mg/l (periodic release) PNEC water 0.026 mg/l (sea water) PNEC water 650 mg/l (sewage treatment plant) Components with biological limits* Biological Limit Value: 80 mg/l (CAS-No. 67-64-1) Test material: urine Time of sampling: end of exposure or end of shift respectively Parameter: Acetone **Environmental exposure control** measures at the workplace No further specifications, see section 7. Additional information for the design of technical facilities

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Personal protective measures*	
General protection and hygienic measures	Commonly accepted precautionary measures in regards to handling chemicals apply. Keep away from food items, drinks and animal feeds. Remove contaminated clothing immediately. Wash hands before breaks and at the end of work. Do not inhale gases/vapours/aerosols. Avoid skin and eye contact.
Respiratory protection*	In case of insufficient ventilation wear respiratory protection. Filter AX (boiling point < 61 °C; Filter A (boiling point > 60 °C) When spraying with insufficient extraction only. Short term filter: Filter A/P2
Eye protection	Tightly sealed safety glasses Safety glasses recommended during refilling.
Hand protection	Upon direct contact with liquid glue (e.g. cleaning): gloves. Otherwise no hand protection required. Glove material: recommended material thickness ≥ 0.7 mm. Gloves made of LLDPE. Permeation time of glove material: value permeation Level ≤ 1 For continuous contact in environments without increased risk of injury such as laboratories gloves made of the following material are suitable: LLDPE. For continuous contact gloves made of the following material are suitable: LLDPE. For continuous contact of a maximum of 15 minutes gloves made of the following material are suitable: butyl rubber.
	Gloves suitable when spray painting: nitrile rubber, natural rubber (latex), chloroprene rubber. Unsuitable are gloves made of the following: Leather, thick fabric.
Additional information for the design of technical facilities	No further specifications, see section 7.

9. Physical- and Chemical	9. Physical- and Chemical Properties		
Particulars in regards to b	pasic physical and chemical characteristics		
Form	Liquid		
Colour	According to product description		
Odour	Typical		
Odour threshold	Not determined.		
Melting point/Melting range	Not determined.		
Boiling point/range	60 °C		
Flash point	-25 °C		
Flammability (solid, gaseous)	Not applicable.		
Ignition temperature	200 °C		
Decomposition temperature	Not determined.		
Spontaneous ignition	Not spontaneously inflammable and explosive.		
Explosion hazard	Product is not spontaneously inflammable and explosive but formation of explosive vapour/air mixtures is possible.		

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Lower explosion limit	About 1.1 Vol%.
Upper explosion limit	About 11.5 Vol%.
Vapour pressure at 20 °C	110 hPa
Density at 20 °C	Relative density: not determined. Vapour density: not determined. Evaporation rate: not determined
Solubility in/Miscibility with water	Not miscible or difficult to mix.
Partition coefficient (n-Octanol/ water)	Not determined.
Viscosity Dynamic at 20 °C Kinematic	600 mPas Not determined.
Solvent content Organic solvent	81.6%
Solids content	17.0%
Maximum VOC content European Community Switzerland USA (without water and exemptions for substances)	81.56% 81.56% 690.9 g/l, 5.77 lb/gl
Other information	No further relevant information available.

10. Stability and Reactivity	
Reactivity	
Chemical stability Thermal decomposition/Conditions to be avoided	No decomposition if used as intended.
Possibility of hazardous reactions	Build-up of explosive vapour-air-mix is possible. Contaminated packaging may contain gases of the produce which may form explosive mixes with air.
Conditions to be avoided	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	Hydrocarbons

11. Toxicological Data	
Declaration of toxicological effects Limit value LD/LC 50-values	

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Additional toxicological information	On the basis of the calculation methods of the "General Classification Guidelines for Preparations of the EC" (First Council and European Parliament Directive 1999/45/EC) in its current version product is associated with the following hazards: Vapours have narcotic effect. Irritant	
Practical experiences Skin Eyes Sensitisation	Irritant to skin ar Irritant None known.	nd mucous membranes.
HYDROCARBON MIXTURE (CAS-No. 64742-49-0) HYDROCARBON MIXTURE (CAS-No. 92062-15-2)	Inhalative: Dermal: Inhalative: Oral: Inhalative:	LC50 / 4 h 43.7 mg/l (rat) LD 50 dermal > 8000 mg/kg (rabbit) LC50 / 4 h 43.7 mg/l (rat) LD50 oral 5500 mg/kg (rat) LC50 / 4 h 50 mg/l (rat)
ETHYL ACETATE (CAS-No. 141-78-6) HYDROCARBON MIXTURE (CAS-No. 64742-49-0)	Oral: Dermal: Inhalative: Oral: Dermal:	LD50 oral 5600 mg/kg (rabbit) LD 50 dermal 18000 mg/kg (rabbit) LC50 / 4 h > 29.3 mg/l (rat) LD50 oral 5500 mg/kg (rat) LD 50 dermal > 8000 mg/kg (rabbit)

12. Environmental data	
Toxicity Aquatic toxicity ETHYL ACETATE (CAS-No. 141-78-6)	EC 50 17.9 mg/l (green algae) EC 50 / 24 h 724 mg/l (Daphnia magna) EC 50/48 h 3,300 mg/l (green algae) 717mg/l (Daphnia magna)
	LC 50 200 mg/l (rat) LC 50/48 h 350 mg/l (living fish) LC 50/96 h 431 mg/l (Danio) 230 mg/l (rainbow trout) 455 mg/l (Pimephales promelas)
HYDROCARBON MIXTURE (CAS-No. 64742-49-0)	EC 50/48 h 3mg/l (Daphnia magna) EC 50/72 h 75.6 mg/l (green algae)
	LC 50/48 h 10 mg/l (living fish) LC 50/96 h 14.1 mg/l (rainbow trout)
HYDROCARBON MIXTURE (CAS-No. 64742-49-0)	EC 50/48 h 6.96 mg/l (Daphnia magna) EC 50/72 h 75.6 mg/l (green algae)
	LC 50/48 h 10 mg/l (living fish) LC 50/96 h 14.1 mg/l (rainbow trout)
HYDROCARBON MIXTURE (CAS-No. 92062-15-2)	EC 50/48 h 3 mg/l (Daphnia magna) EC 50/72 h 55 mg/l (green microalgae)

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	LC 50/96 h 12 mg/l (rainbow trout)	
Persistence and degradability	No further relevant information available.	
Bio-accumulation potential	No further relevant information available.	
Mobility in soil	No further relevant information available.	
Eco-toxic effects Remark	Toxic to fish	
behaviour in sewage treatment plants		
ETHYL ACETATE (CAS-No. 141-78-6)	EC 10/16 h 2900 mg/l (Pseudomonas Putida)	
Results of PBT- and vPvB- Assessment	Not applicable.	
Other hazardous effects	No further relevant information available.	
Additional ecological information	Water Hazard Class 1 (self-classification): slightly hazardous to water Keep from entering ground water, waters or sewage systems undiluted and in large quantities respectively. Also harmful to fish and plankton in aquatic environments. Product contains environmental hazardous substances. Toxic to aquatic organisms.	

13. Disposal Consideration	n
Waste treatment procedures	
Recommendation	Do not dispose with household waste. Prevent from entering sewage system. Dispose of via hazardous waste collection or hazardous household wastes collection centres.
Waste code	European Waste Catalogue: 08 04 09*: Waste adhesives and sealants that contain organic solvents and other hazardous substances.
Glues, dry, solid mass (fully set)	Minor quantities may be disposed of via household waste. Waste disposal code 08 04 10: adhesives and sealants other than those mentioned in 08 04 09.
Uncleaned packaging Recommendation	Packaging is to be disposed of according to Packaging Ordinance. Packaging which cannot be cleaned is to be disposed of in the same manner as the substance itself. Recommended cleaner: White spirit

14. Transport Data		
UN-Number ADR, IMDG, IATA	1133	
Correct UN-shipping name	ADR:	1133 ASHESIVES, ENVIRONMENTAL HAZARDOUS

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	IMDG-Code:	ADHESIVES (Naphtha), MARINE POLLUTANT
	IATA:	ADHESIVES
Transport hazard class(es)	IAIA.	ADITOTYLO
ADR	Class: Classification Code: Dangerous Goods Label:	3 F1 flammable liquids 3
IMDG	Class: Dangerous Goods Label:	3, flammable liquids 3
IATA	Class: Dangerous Goods Label:	3, flammable liquids 3
Packing Group	III	
Environmental hazards	Product contains environmen Hydrocarbon mixture	atal hazardous substances.
Marine pollutant	No Yes Symbol (fish and tree)	
Particular labelling	ADR: Symbol (fish and tree)	
Particular precautions for user Kemler-figure EMS-Number	Attention: flammable liquids. 33 F-E, S-D	
Bulk transport according to Annex II of the MARPOL convention 73/78 and IBC Code	Not applicable.	
Transport/Further Data ADR	Limited Quantity (LQ): Transport Category: Tunnel Restriction Code:	5L 3 D/E
15. Legal Provisions		
Health and Safety as well as environmental protection/specific legal provisions for substance or mixture		
National Regulations Industrial Safety Regulations (BetrSichV)	Highly flammable.	
Technical instructions to keep air unpolluted	Class I, percentage 0.3 Class NK, percentage 81.3	
Water Hazard Class	Water Hazard Class 1 (self-c	lassification): slightly hazardous to water
Additional regulations Limitations and Prohibition Ordinance	Regulation 500, Part 2, chapt	on: "Processing Coating Substances" (Trade Association ter 2.29) Association-leaflet: M 017 "Solvents"
Chemical Safety Assessment	Chemical Safety Assessmen	t was not carried out.

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16. Other information		
R-phrases of ingredients	11	Highly flammable.
	36	Irritating to eyes.
	38	Irritating to skin.
	43	Sensitization by inhalation and skin contact possible.
	48/20	Harmful. Danger of serious damage to health due to prolonged exposure by inhalation.
	51/53	Toxic to aquatic organisms, may cause long-term adverse effects in an aquatic environment.
	62	May impair fertility.
	65	Harmful. May cause damage to lung if swallowed.
	66	Repeated contact may cause dry or chapped skin.
	67	Vapours may cause drowsiness and dizziness.
GHS hazard warning of ingredients	H225	Liquid and vapour highly flammable.
	H304	May be fatal when swallowed or inhaled.
	H315	Causes skin irritation.
	H317	May cause allergic skin reactions.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness and dizziness.
	H361f	May likely impair fertility.
	H373	May cause organ damage at continuous or prolonged exposure.
	H411	Toxic to aquatic organisms, long term effects.
Data sheet issued by	Product Management	