Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

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

· 1.1 Product identifier

· Trade name: Contact 100

· Article number: F01853LE00

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC1 Adhesives, sealants
- · Application of the substance / the mixture Adhesives
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

INDUSTRIE CHIMICHE FORESTALI S.p.A.

Via Kennedy 75 - 20010 Marcallo con casone (Milano) ITALY

tel. +39 02972141; fax +39 029760158

e-mail: forestali@forestali.it

- · Further information obtainable from: Environmental & Safety Department Forestali
- · 1.4 Emergency telephone number:

Tel. +39 0297214 252 Servizio Ambiente & Sicurezza Industrie Chimiche Forestali S.p.A. 8:00 - 17:00 ITALIA Centro Antiveleni Ospedale Niguarda "Ca' Granda" MILANO tel. 02/66101029; Fondazione Maugeri - Clinica del lavoro e della Riabilitazione PAVIA tel. 0382/24444; Centro Documentazione Tossicologica - Università degli Studi PADOVA tel. 049/8275078; Centro Antiveleni Istituto Scientifico "G. Gaslini" GENOVA tel. 010/5636245; Centro Antiveleni Azienda Ospedaliera "Careggi" FIRENZE tel. 055/4277328; Centro Antiveleni "Policlinico Gemelli" ROMA tel. 06/3054343; Centro Antiveleni Università degli Studi di Roma "La Sapienza" ROMA tel. 06/49970698; Centro Antiveleni Azienda Ospedaliera "A. Cardarelli" NAPOLI tel. 081/7472870; Centro antiveleni Azienda Ospedaliera Universitaria FOGGIA tel. 0881/731111

AUSTRIA Vergiftunginformationszentrale +43 1 406 43 43

BELGIUM Centre Antipoisons-Antigifcentrum +32 30245245

BULGARIA National Toxicology Centre at National Clinical Toxicology Centre +359 2 9154 233

CROTIA Poison Control Centre Zagreb +385 1 2348342

CECH REPUBLIC Toxicological Information Centre + 420224919 293

DENMARK Poison Information Centre n +45 82 12 12 12

ESTONIA Estonian Poison Information centre +372 626 93 90

FINLAND Finnish Poison Information Centre +358 9 471977

FRANCE Centre Antipoison et de Toxicovigilance de Angers +33 2 41 35 33 30

HUNGARY Health Toxicology Information Service +36 80 20 11 99

IRELAND Poison Information Centre of Ireland +353 1 809 2166

LATVIA Valsts Toksikologijas centres + 371 67042473

LITHUANIA Lithuania Poison Control and Information Bureau +370 5 236 20 52

PORTUGAL CIAV Centro de Informacao Antivelenos +351 808 250 143

SLOVAKIA National Toxicological Information Center +421 2 54 774 166

POLAND Informacja toksykogiczna w Polsce +48 42 631 47 24 (czynna 7:00-15:00)

SPAIN Istituto Nacional de Toxicologia +34 156 20420

### 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.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

(Contd. of page 1)



H315 Causes skin irritation. Skin Irrit. 2 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-determining components of labelling:

Solvent naphtha (petroleum), hydrotreated light naphthenic; Hydrocarbons C6-C7 isoalkanes cyclics < 5% nhexane (REACH Registered Name)

#### · Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

P241  $Use\ explosion-proof\ electrical/ventilating/lighting/equipment.$ 

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P240 Ground/bond container and receiving equipment.

P303+P361+P353 IF ON SKIN (or hair): 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.

P321 Specific treatment (see on this label).

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

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:

Contains epoxy constituents. May produce an allergic reaction.

Contains Rosin, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700). May produce an allergic reaction.

#### · 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

(Contd. of page 2)

#### SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 92062-15-2 EC number: 926-605-8 Reg.nr.: 01-2119486291-36	Solvent naphtha (petroleum), hydrotreated light naphthenic; Hydrocarbons C6-C7 isoalkanes cyclics < 5% n-hexane (REACH Registered Name)  Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	30-50%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	Ethyl acetate  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	15-<25%
CAS: 64742-49-0 EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Naphtha (petroleum), hydrotreated light; hydrocarbons C6 isoalkanes < 5% n-hexane (REACH Registered Name)  Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	15-<25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	5-<10%
CAS: 8050-09-7 EINECS: 232-475-7 Reg.nr.: 01-2119480418-32	Rosin  Skin Sens. 1, H317	0.5-<1%
CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)  Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	0.1-0.7%

#### · UVCB (Unknown Variable Complex reaction product or Biological Origin)

64742-49-0 Naphtha (petroleum), hydrotreated light; hydrocarbons C6 isoalkanes < 5% n-hexane (REACH Registered Name)

· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

· 5.2 Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 4)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

(Contd. of page 3)

· 5.3 Advice for firefighters

· Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· 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 only in unopened original receptacles.

Store the product in well areated local at a temperature between 5 and 35 °C. Avoid temperature up 40 °C and below 5 °C because the product could freeze and coagulate becaming unusable.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

 $\cdot$  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	e:
--	----

141-78-6 Ethyl acetate (15-<20%)

WEL Short-term value: 400 ppm Long-term value: 200 ppm

67-64-1 Acetone (5-<10%)

WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

(Contd. on page 5)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

		(Contd. of page 4)
8050-09-7 Rosin (0.5-<	1%)	/ Tre- /
WEL Short-term value: Long-term value: Sen		
· DNELs		
141-78-6 Ethyl acetate		
Dermal Long term-S	ystemic effect	63 mg/kg (workers)
Inhalative Long term-S	ystemic effect	1468 mg/m3 (workers)
Long term-L	ocal effect	1468 mg/m3 (workers)
	petroleum), legistered Nan	hydrotreated light; hydrocarbons C6 isoalkanes < 5% n-hexane ne)
Dermal Long term-S	ystemic effect	13964 mg/kg (workers)
Inhalative Long term-L	ocal effect	5306 mg/m3 (workers)
67-64-1 Acetone		
Dermal Long term-S	ystemic effect	186 mg/kg (workers)
Inhalative Long term-Local effect 2420 mg/m3 (workers)		2420 mg/m3 (workers)
· PNECs		
141-78-6 Ethyl acetate		
fresh water	0.26 mg/l (frs	s)
	0.26 mg/l (wo	ater)
marine water	0.026 mg/l (n	mar)
	0.026 mg/l (v	water)
Intermittent release 650 mg/l (water)		ater)
67-64-1 Acetone		
fresh water	10.6 mg/l (water)	
marine water	1.06 mg/l (water)	
Intermittent release	21 mg/l (water)	
sediment-fresh water	30.4 mg/l (water)	
sewage treatment plant		
Soil	Soil 29.5 mg/kg (soil)	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

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.

Avoid contact with the eyes and skin.

#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 6)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

(Contd. of page 5)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

SECTION 9: Phys	ical and ch	nemical pro	perties

· Partition coefficient (n-octanol/water): Not determined.

· 9.1 Information on basic physical ar	nd chemical properties
· General Information	
· Appearance:	
Form:	Fluid
Colour:	Brown
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55 °C
· Flash point:	-20 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	> 200 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	11.5 Vol %
· Vapour pressure at 20 °C:	110 hPa
· Density at 20 °C:	0.86 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Soluble.

(Contd. on page 7)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

		(Contd. of page 6
· Viscosity:		
Dynamic at 20 °C:	1800 mPas	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	74.0 %	
Water:	0.0 %	
VOC (EU):	636.9 g/l	
Solids content:	26.0 %	
· 9.2 Other information	No further relevant information available.	

## SECTION 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: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:		
141-78-6 E	141-78-6 Ethyl acetate		
Oral	LD50	4935 mg/kg (rabbit)	
Inhalative	LC50/4 h	1600 mg/l (rat)	
67-64-1 Ad	67-64-1 Acetone		
Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	
1330-20-7	1330-20-7 xylene (mix)		
Oral	LD50	8700 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
Inhalative	LC50/4 h	6350 mg/l (rat)	

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

(Contd. on page 8)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

(Contd. of page 7)

· Aspiration hazard Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### 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.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 1	l4: Trans	port in	formai	tion

UN1133
1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS
ADHESIVES (Solvent naphtha (petroleum), hydrotreated
light naphthenic; Hydrocarbons C6-C7 isoalkanes cyclics
< 5% n-hexane (REACH Registered Name), HEXANES),
MARINE POLLUTANT
ADHESIVES

- · 14.3 Transport hazard class(es)
- · ADR, IMDG



· Class 3 Flammable liquids.

(Contd. on page 9)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

	(Contd. of page
· Label 	3
· IATA	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:  · Marine pollutant:	Product contains environmentally hazardous substances Solvent naphtha (petroleum), hydrotreated ligh naphthenic; Hydrocarbons C6-C7 isoalkanes cyclics < 5% n-hexane (REACH Registered Name) Yes
marine politicani.	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E,S-D A
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1133 ADHESIVES, 3, III, ENVIRONMENTALL HAZARDOUS

## SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 10)

Printing date 20.01.2017 Version number 17 Revision: 20.01.2017

Trade name: Contact 100

(Contd. of page 9)

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	74.1

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

- · Department issuing SDS: Environmental & Safety Department Forestali
- · Contact: Antonio Sassi
- · 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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

\* Data compared to the previous version altered.

GB ·