

SCHEDA DI SICUREZZA**Safety Data Sheet****SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Code: **700123**
Product name: **Panel-Glue-Isocanale**
Chemical name and synonym: **POLICHLOPRENIC ADHESIVE SOLVENT-BASED**

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

Intended use: **Industrial use. Professional use.**
Not recommended use: **Consumer use**

1.3. Details of the supplier of the safety data sheet

Name: **STIFERITE SPA**
Full address: **V.le Navigazione Int., 54/5**
District and Country: **35129 Padova**
ITALY
Tel. +39 049 8997911
Fax +39 049 774727

e-mail address of the competent person
responsible for the Safety Data Sheet

cert@stiferite.com

1.4. Emergency telephone number

For urgent inquiries refer to

+39 049 8997911 (office hours 8.00-12.00 14.00-17.00)

CAVp "Osp. Pediatrico Bambino Gesù"	Roma	06 68593726
Az. Osp. Univ. Foggia	Foggia	0881-732326
Az. Osp. "A. Cardarelli"	Napoli	081-7472870
CAV Policlinico "Umberto I"	Roma	06-49978000
CAV Policlinico "A. Gemelli"	Roma	06-3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica	Firenze	055-7947819
CAV Centro Nazionale di Informazione Tossicologica	Pavia	0382-24444
Osp. Niguarda Ca' Granda	Milano	02-66101029
Azienda Ospedaliera Papa Giovanni XXII	Bergamo	800883300

SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEDA DI SICUREZZA

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	In case of fire: use carbon dioxide, foam, chemical powder to extinguish.
P273	Avoid release to the environment.
P391	Collect spillage.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains:

TOLUENE
HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE
ETHYL ACETATE
BUTANONE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE		
CAS -	30 ≤ x < 50	Flam. Liq. 2 H225, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC 926-605-8		
INDEX -		
Reg. no. 01-2119486291-36		
ETHYL ACETATE		
CAS 141-78-6	10 ≤ x < 20	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 205-500-4		
INDEX 607-022-00-5		
Reg. no. 01-2119475103-46		
ACETONE		
CAS 67-64-1	5 ≤ x < 10	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 200-662-2		
INDEX 606-001-00-8		
Reg. no. 01-2119471330-49		
BUTANONE		

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	------------------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

CAS 78-93-3 EC 201-159-0 INDEX 606-002-00-3 Reg. no. 01-2119475103-46	5 ≤ x < 10	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
TOLUENE		
CAS 108-88-3 EC 203-625-9 INDEX 601-021-00-3 Reg. no. 01-2119471310-51	3 ≤ x < 5	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
HEPTANE		
CAS - EC 927-510-4 INDEX - Reg. no. 01-2119475515-33	2,5 ≤ x < 5	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: C
XYLENE (MIXTURE OF ISOMERS)		
CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00-9 Reg. no. 01-2119488216-32	0 ≤ x < 1	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C
ETHYLBENZENE		
CAS 100-41-4 EC 202-849-4 INDEX 601-023-00-4 Reg. no. 01-2119489370-35	0 ≤ x < 1	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373

The full wording of hazard (H) phrases is given in section 16 of the sheet.

HYDROCARBONS, C6 - C7, ISOALCANS, CYCLICS, <5% N-HEXANE:
This material is defined as a substance. HYDROCARBONS, C6 - C7, ISOALCANS, CYCLICS, <5% N-HEXANE EC # 926-605-8 100%. Note: any information in the EC # column starting with number "9" is an EC # Provisional List Number provided by ECHA pending publication of the official European Inventory for substances. The following substance is identified by the CAS number both in countries not subject to REACH Regulations and in Regulations not yet updated with the new nomenclatures of hydrocarbon solvents. Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% N-HEXANE, CAS No. 92062-15-2.

HYDROCARBONS, C6 - C7, ISOALCANS, CYCLICS, <5% N-HEXANE: Reportable dangerous components contained in UVCB- and / or multi-component substances that meet the classification criteria and / or with exposure limits (OEL):
CYCLOHEXANE CAS # 110-82-7 EC # 203-806-2 Concentr. 75%
GHS / CLP classification: Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1), Asp. Tox. 1 H304, Flam. Liq. 2 H225, STOT SE 3 H336, Skin Irrit. 2
N-HEXANE CAS # 110-54-3 EC # 203-777-6 Concentr. <5%
GHS / CLP Classification: Aquatic Acute 2 H401], Aquatic Chronic 2 H411, Asp. Tox. 1 H304, Flam. Liq. 2 H225, Repr. 2 H361f, STOT SE 3 H336, Skin Irrit. 2 H315, STOT RE 2 H373

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	-----------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	-----------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
EU	TLV-ACGIH	ACGIH 2019

ACGIH TLVs and BEIs –
Appendix H

HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
RCP TLV		400	115		
Predicted no-effect concentration - PNEC					
Normal value in fresh water				VND	
Normal value in marine water				VND	
Normal value for fresh water sediment				VND	
Normal value for marine water sediment				VND	
Normal value for water, intermittent release				VND	
Normal value of STP microorganisms				VND	
Normal value for the food chain (secondary poisoning)				VND	
Normal value for the terrestrial compartment				VND	
Normal value for the atmosphere				VND	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		VND	VND	1301 mg/kg bw/d				
Inhalation	VND	VND	VND	1131 mg/m3	VND	VND	VND	5306 mg/m3
Skin	VND	VND	VND	1377 mg/kg bw/d	VND	VND	VND	13964 mg/kg bw/d

ETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1500	400	3000	800
MAK	DEU	1500	400	3000	800
VLA	ESP	1460	400		
VLEP	FRA	1400	400		
WEL	GBR		200		400
OEL	EU	734	200	1468	400
TLV-ACGIH		1441	400		
Predicted no-effect concentration - PNEC					
Normal value in fresh water				0,26	mg/l
Normal value in marine water				0,026	mg/l
Normal value for fresh water sediment				1,25	mg/kg

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	------------------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

Normal value for marine water sediment	0,125	mg/kg
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the food chain (secondary poisoning)	200	mg/kg
Normal value for the terrestrial compartment	0,24	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	4,5 mg/kg/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin				37 mg/kg/d				63 mg/kg/d

ACETONE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1200	500	2400	1000
MAK	DEU	1200	500	2400	1000
VLA	ESP	1210	500		
VLEP	FRA	1210	500	2420	1000
WEL	GBR	1210	500	3620	1500
VLEP	ITA	1210	500		
OEL	EU	1210	500		
TLV-ACGIH		250		500	

Predicted no-effect concentration - PNEC

Normal value in fresh water	106	mg/l
Normal value in marine water	1,06	mg/l
Normal value for fresh water sediment	30,4	mg/kg
Normal value for marine water sediment	3,04	mg/kg
Normal value for water, intermittent release	21	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	29,5	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	62 mg/kg/d				
Inhalation			VND	200 mg/m3	2420 mg/m3	1210 mg/m3		
Skin			VND	62 mg/kg/d			VND	186 mg/kg/d

BUTANONE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	600	200	600	200	SKIN
MAK	DEU	600	200	600	200	SKIN
VLA	ESP	600	200	900	300	
VLEP	FRA	600	200	900	300	SKIN

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	------------------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

WEL	GBR	600	200	899	300	SKIN
VLEP	ITA	600	200	900	300	
OEL	EU	600	200	900	300	
TLV-ACGIH		590	200	885	300	

Predicted no-effect concentration - PNEC						
Normal value in fresh water				55,8	mg/l	
Normal value in marine water				55,8	mg/l	
Normal value for fresh water sediment				284,74	mg/kg	
Normal value of STP microorganisms				709	mg/l	
Normal value for the food chain (secondary poisoning)				1000	mg/kg	
Normal value for the terrestrial compartment				22,5	mg/kg	

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	31 mg/kg bw/d				
Inhalation			VND	106 mg/m3	VND			600 mg/m3
Skin			VND	412 mg/kg bw/d	VND			1161 mg/kg bw/d

TOLUENE
Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
VLEP	ITA	192	50			SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			

Predicted no-effect concentration - PNEC						
Normal value in fresh water				0,68	mg/l	
Normal value in marine water				0,68	mg/l	
Normal value for fresh water sediment				16,39	mg/kg	
Normal value for marine water sediment				16,39	mg/kg	
Normal value for water, intermittent release				0,68	mg/l	
Normal value of STP microorganisms				13,61	mg/l	
Normal value for the terrestrial compartment				2,89	mg/kg	

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	8,16 mg/kg bw/d				
Inhalation	VND	226 mg/m3	VND	56,5 mg/m3	VND	384 mg/m3		192 mg/m3
Skin			VND	226 mg/m3			VND	384 mg/m3

HEPTANE

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEMA DI SICUREZZA

Predicted no-effect concentration - PNEC

Normal value in fresh water VND

Normal value in marine water VND

Normal value for the terrestrial compartment VND

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	149 mg/kg/d						
Inhalation			VND	447 mg/m3	VND	20825	VND	2085 mg/m3
Skin			VND	149 mg/kg/d			VND	300 mg/kg/d

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	
VLEP	ITA	221	50	442	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

ETHYLBENZENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	88	20	176	40	SKIN
VLA	ESP	441	100	884	200	SKIN
VLEP	FRA	88,4	20	442	100	SKIN
WEL	GBR	441	100	552	125	SKIN
VLEP	ITA	442	100	884	200	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		87	20			

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the

Safety data sheet	Panel- Glue- Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	-------------------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

duration and type of use.

The types of gloves to be considered for this material include: Nitrile, minimum 0.38 mm thick or equivalent barrier material with a high level performance for continuous contact use conditions

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	liquid
Colour	yellow
Odour	solvent
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	> 35 °C
Boiling range	Not available
Flash point	< 23 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	3500-4000 mPas at 20°C

Safety data sheet	Panel- Glue- Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	-------------------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

Explosive properties Not available
Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC) : 78,21 %

VOC (volatile carbon) : 58,90 %

The values of physical and chemical properties do not constitute specification.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

ACETONE

Decomposes under the effect of heat.

BUTANONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

TOLUENE

Avoid exposure to: light.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

IDROCARBURI, C6-C7, ISOALCANI, CICLICI, < 5% N-ESANO

CICLOESANO: pur essendo molto stabile, può reagire violentemente con gli ossidanti forti. Materiali incompatibili: gomma butilica e naturale, neoprene, pvc, polietilene.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

ACETONE

Risk of explosion on contact with: bromine trifluoride, fluorine dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxy monosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

BUTANONE

May form peroxides with: air, light, strong oxidising agents. Risk of explosion on contact with: hydrogen peroxide, nitric acid, sulphuric acid. May react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with: air.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

ETHYLBENZENE

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEDA DI SICUREZZA

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

ACETONE

Avoid exposure to: sources of heat, naked flames.

BUTANONE

Avoid exposure to: sources of heat.

10.5. Incompatible materials

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.

ACETONE

Incompatible with: acids, oxidising substances.

BUTANONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ACETONE

May develop: ketenes, irritant substances.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Safety data sheet	Panel- Glue- Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEDA DI SICUREZZA**XYLENE (MIXTURE OF ISOMERS)**

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects**TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture:

Not classified (no significant component)

LD50 (Dermal) of the mixture:

Not classified (no significant component)

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

HEPTANE

LD50 (Oral) > 5000 mg/kg

LD50 (Dermal) > 2000 mg/kg

LC50 (Inhalation) > 23300 mg/m³

TOLUENE

LD50 (Oral) 5580 mg/kg Rat

LD50 (Dermal) 12124 mg/kg Rabbit

LC50 (Inhalation) 28,1 mg/l/4h Rat

ETHYLBENZENE

LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) 15354 mg/kg Rabbit

LC50 (Inhalation) 17,2 mg/l/4h Rat

ACETONE

LD50 (Oral) 5800 mg/kg 24 h rat

LD50 (Dermal) 7400 mg/kg rabbit

LC50 (Inhalation) 76 mg/l/4h rat

BUTANONE

LD50 (Oral) 2737 mg/kg Rat

LD50 (Dermal) 6480 mg/kg Rabbit

LC50 (Inhalation) 23,5 mg/l/8h Rat

ETHYL ACETATE

LD50 (Oral) 5620 mg/kg bw ratto

LD50 (Dermal) > 20000 mg/kg bw rabbit

IDROCARBURI, C6-C7,ISOALCANI, CICLICI, < 5% N-ESANO

LD50 (Oral) > 3350 mg/kg ratto

LD50 (Dermal) > 2000 mg/kg rabbit

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEDA DI SICUREZZA

LC50 (Inhalation) > 20 mg/l ratto

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.
Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 3500-4000 mPas a 20°C

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment

12.1. Toxicity

HEPTANE

LC50 - for Fish	> 13,4 mg/l/96h Onocorhynchus Mykiss
EC50 - for Crustacea	3 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	10 mg/l/72h Pseudokirchenella subcapitata
Chronic NOEC for Fish	1,534 mg/l 28 gg
Chronic NOEC for Crustacea	1 mg/l Dafnia-Daphnia magna- 21 gg

ACETONE

LC50 - for Fish	5540 mg/l/96h lepomis
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ETHYL ACETATE

Safety data sheet	Panel- Glue- Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEDA DI SICUREZZA

LC50 - for Fish	230 mg/l/96h pimephales promelas
EC50 - for Crustacea	165 mg/l/48h daphnia
HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE	
LC50 - for Fish	12 mg/l/96h onocorhynchus mykiss
EC50 - for Crustacea	3 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	55 mg/l/72h pseudokirchneriella subcapitata

12.2. Persistence and degradability

The paraffinic hydrocarbons fraction may be considered biodegradable in water and in air. They distribute mostly in the air. The small non biodegradable amount which spreads into water tends to accumulate in fish.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

HEPTANE

Rapidly degradable

TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ACETONE

Rapidly degradable

BUTANONE

Solubility in water > 10000 mg/l

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE

Rapidly degradable

12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12

BCF 25,9

TOLUENE

Partition coefficient: n-octanol/water 2,73

Safety data sheet	Panel- Glue- Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	-----------------------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

BCF	90
ETHYLBENZENE	
Partition coefficient: n-octanol/water	3,6
ACETONE	
Partition coefficient: n-octanol/water	-0,23
BCF	3
BUTANONE	
Partition coefficient: n-octanol/water	0,3
ETHYL ACETATE	
Partition coefficient: n-octanol/water	0,68
BCF	30
HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE	
Partition coefficient: n-octanol/water	< 4

12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: soil/water	2,73
HEPTANE	
Partition coefficient: soil/water	2

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1133

14.2. UN proper shipping name

ADR / RID: ADHESIVES

IMDG: ADHESIVES (HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE)

Safety data sheet	Panel- Glue- Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
-------------------	---------------------------	-----------------------	----------------------	--------------------	----------------------------

SCHEDA DI SICUREZZA

IATA: ADHESIVES

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special Provision: 640D		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 353
	Special Instructions:	A3	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 48 TOLUENE Reg. no.: 01-2119471310-51

Point 72 FORMALDEHYDE CONC < 5ppm

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEDA DI SICUREZZASubstances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

HYDROCARBONS, C6-C7, ISOALCANS, CYCLICS, <5% N-HEXANE
ETHYL ACETATE
ACETONE
BUTANONE
TOLUENE
HEPTANE

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

Safety data sheet	Panel- Glue- Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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SCHEDA DI SICUREZZA

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- The Merck Index. - 10th Edition
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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified: /

Safety data sheet	Panel- Glue-Isocanale	Rev. 1 del 01/10/2019	Author: F. Raggiotto	Verified: L. Tolin	Authorized: M. Stimamiglio
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