

AIRVIK-9

Strong tack aerosol adhesive for multipurpose temporary positioning of layers

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Name of product: Article:

Company name: Street/POB No.: State/city/postal code: Telephone: Telefax: E-mail: Description: Size: AIRVIK-9 Aerosol adhesive

«VIK-COMPOSITE» GmbH Carl-Zeiss-Str. 11 DE Waldstetten 73550 +49 07171 2923 +49 07171 2924 <u>sales@vik-composite.com</u> Adhesive for composite materials 500 ml

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant 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 environment are given in

sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1	H222	Extremely flammable aerosol
	H229	Pressurized container: may burst if heated
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways
Eye irritation, category 2	H319	Causes serious eye irritation
Skin irritation, category 2	H315	Causes skin irritation
Specific target organ toxicity - single	H336	May cause drowsiness and dizziness
exposure, category 3		
Hazardous to aquatic environment,	H411	Toxic to aquatic life with long lasting effects
chronic toxicity, category 2		

2.2. Label elements

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

Hazard pictograms:



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Signal word: DANGER

Hazard statements:

H222	Extremely flammable aerosol	

- H229 Pressurised container: May burst if heated
- H319 Causes serious eye irritation
- H315 Causes skin irritation
- H336 May cause drowsiness and 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 smoking.
P251	Do not pierce or burn, even after use.
B 4 4 8 B 4 4 8	

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P211 Do not spray on an open flame or other ignition source

- P273 Avoid release to the environment.
- P391 Collect spillage.

Contains: HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE ACETONE

Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

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. Mixture

Contains :

Identification :

x = Conc.%

Classification 1272/2008 (CLP)



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HYDROCARBO	ONS, C6, ISO	-ALKANES, <5%	6 n-HEXANE
CAS	64742-49-0	15≤x< 30	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: P
EC	931-254-9		
INDEX			
Reg. No.	01-2119484	4651-34-XXXX	
PROPANE			
CAS	74-98-6	$15 \le x < 30$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U
EC	200-827-9		
INDEX	601-003-00	5	
Reg. No.	01-21194869	944-21-XXXX	
ACETONE			
CAS	67-64-1	$5 \leq x < 15$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	200-662-2		
INDEX	606-001-00-0	8	
Reg. No.	01-21194713	330-49-XXXX	
ISO-BUTANE			
CAS	75-28-5	$1 \le x < 5$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C U
EC	200-857-2		
INDEX	601-004-00-0	0	
Reg. No.	01-21194853	895-27-XXXX	
N-BUTANE			
CAS	106-97-8	$1 \le x < 5$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C U
EC	203-448-7		
INDEX	601-004-00-0	0	
Reg. No.	01-21194746	591-32-XXXX	
ETHANOL			
CAS	64-17-5	$1 \le x < 5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC	200-578-6		
INDEX	603-002-00-5		
Reg. No.	01-211945761	0-43-XXXX	

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

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.



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Percentage of propellants: 29,97%

The LPG used for pressurization is denatured with 0.1% by weight of trans-1,3,3,3-tetrafluoroprop-1-ene CAS 29118-24-9 / EINECS 471-480-0 (global warming potential, GWP <= 1).

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

EYES: remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15/30 minutes, opening the eyelids fully. If the problem persists seek medical advice.

SKIN: remove contaminated clothing. Wash with running water. If the problem persists seek medical advice. Wash contaminated clothing before using it again.

INGESTION: immediately call a poison center or doctor. Do not induce vomiting. Rinse mouth with running water if the victim is conscious and collaborative. Do not give anything by mouth to an unconscious person. Do not give anything which is not expressly authorized by a doctor.

INHALATION: remove victim to fresh air. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If the problem persists, get medical advice.

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

No specific information is known about the symptoms and effects caused by the product. See section 11 for effects due to substances

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

Keep the safety data sheet or, failing that, the label available for the medical personnel.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT Water jets.

5.2. Special hazards arising from the substance or mixture



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HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE.

If overheated, aerosol cans can deform, explode and be propelled at considerable distances. Put a protective helmet on before approaching the fire. 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.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting 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.

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. Use explosion-proof equipment. 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.



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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. 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. Do not eat, drink or smoke during use. Do not breathe spray.

INDUSTRIAL USE

Use with a frequency up to 360 days / year for a time not exceeding 8 hours a day. The temperature in the environment of use must not exceed the ambient temperature by more than 20°C. Provide local exhaust ventilation (LEV) where emissions occur (efficiency: 90%). PROFESSIONAL USE.

Use with a frequency up to 360 days / year for a time not exceeding 8 hours a day. The ambient temperature of use must not exceed the ambient temperature by more than 20°C. Provide local exhaust ventilation (LEV) where emissions occur (efficiency: 90%).

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany): 2B

7.3. Specific end use(s)

Follow the instructions on the product labeled or on the information sheet. Refer to the safe use information if enclosed with this safety data sheet.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Regulatory references:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА
		МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30
		декември 2003 г (4 Септември 2018г)
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019) - Liste der
		Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS
	•	EN ESPAÑA 2019 (INSST)



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FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR GRC	United Kingdom Ελλάδα	EH40/2005 Workplace exposure limits (Third edition,published 2018) ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
SVN	Slovenija	Uradnem list Republike Slovenije 04.12.2018 - Uradnem listu RS št. 78 - PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

Theshhold limit value									
Туре		Cou	Intry	TWA	/8h	STEL/15 n	nin	Remarks/Observations	
				mg/m	^{յ3} ppm	mg/m ³ pp	m		
AGW		DEL	J	1500		3000			
TLV-ACGIH				1441	400				
Health - Der	ived no-	effec	t level - DNE	L / DMEL					
		E	Effects on co	nsumers		Effects on w	orkers		
Route of	Acute	9	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
exposure	local		systemic	local	systemic	local	systemic	local	systemic
Oral					1301 mg/kg bw/d				
Inhalation					1131 mg/m ³				5306 mg/m ³
Skin					1377 mg/kg bw/d				13964 mg/kg bw/d

PROPANE

Theshhold limit value								
Туре	Country	TWA/8h	Remarks/Observations					
		mg/m ³ ppm	mg/m³ ppm					
TLV	BGR	1800						
AGW	DEU	1800 1000	7200 4000					
MAK	DEU	1800 1000	7200 4000					
TLV	GRC	1800 1000						
NDS/NDSCh	POL	1800						
MV	SVN	1800 1000						
TLV-ACGIH		1000	400					



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ACETONE

Theshhold limit value									
Туре	Со	untry	TWA/	8h	STEL/15 min			Remarks/O	bservations
			mg/m ²	³ ppm	mg/m ³	³ ppn	n		
TLV	BG	R	600		1400				
AGW	DEI	U	1200	500	2400	1000			
MAK	DEI		1200	500	2400	1000)		
VLA	ESF	>	1210	500					
VLEP	FR/		1210	500	2420	1000			
WEL	GB		1210	500	3620	1500)		
TLV	GR		1780		3560				
GVI/KGVI	HR		1210	500					
VLEP	ITA		1210	500					
NDS/NDSCh	PO		600		1800				
VLE	PR		1210	500					
MV	SVI	N	1210	500					
OEL	EU		1210	500					
TLV-ACGIH			1187	500	1781	750			
Predicted no	-effect cond	entration - P	NEC						
Normal value	in fresh wate	er			10,6			mg/l	
Normal value	in marine wa	ater			1,06 r			mg/l	
Normal value	for fresh wa	ter sediment			30,4			mg/kg	
Normal value	for marine w	ater sediment	t		3,04			mg/kg	
Normal value	for water, in	termittent rele	ase		21			mg/l	
Normal value	of STP micr	oorganisms			100			mg/l	
		strial comparti	ment		2,95			mg/kg	
		ct level - DNE			_,				
Hould Bon		Effects on co			Effects	on w	orkers		
Route of	Acute	Acute	Chronic	Chronic	Acu		Acute	Chronic	Chronic
exposure	local	systemic	local	systemic	loca	al	systemic	local	systemic
Oral				62					
				mg/kg bw/d			2420		1210
Inhalation				200 mg/m ³			2420 mg/m ³		
				62			mg/m*		mg/m ³ 186
Skin				mg/kg bw/d					mg/kg bw/d

N-BUTANE

Theshhold limit value							
Туре	Country	TWA/8h	STEL/15 min	Remarks/Observations			
		mg/m³ ppm	mg/m³ ppm				
TLV	BGR	1900					
AGW	DEU	2400 1000	9600 4000				
MAK	DEU	2400 1000	9600 4000				
VLA	ESP	800					
VLEP	FRA	1900 800					
WEL	GBR	1450 600	1810 750				
TLV	GRC	2350 1000					
GVI/KGVI	HRV	1450 600	1810 750				
NDS/NDSCh	POL	1900	3000				
TLV-ACGIH			2377 1000				



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ISO-BUTANE

Theshhold limit value							
Туре	Country	TWA/8h	STEL/15 min	Remarks/Observations			
		mg/m³ ppm	mg/m³ ppm				
TLV	BGR	1900					
AGW	DEU	2400 1000	9600 4000				
MAK	DEU	2400 1000	9600 4000				
VLA	ESP	800					
VLEP	FRA	1900 800					
WEL	GBR	1450 600	1810 750				
TLV	GRC	2350 1000					
GVI/KGVI	HRV	1450 600	1810 750				
NDS/NDSCh	POL	1900	3000				
TLV-ACGIH			2377 1000				

ETHANOL

Theshhold limit value										
Туре	Cοι	untry	TWA/	8h	STEL/	' 15 m i	in	Remarks/O	bservations	
			mg/m ²	³ ppm	mg/m ³	ppn	n			
TLV	BGI		1000							
AGW	DEI	J	380	200	1520	800				
MAK	DE	-	380	200	1520	800				
VLA	ESF		1910	1000						
VLEP	FR/		1900	1000	9500	5000)			
WEL	GB		1920	1000						
TLV	GR		1900	1000						
GVI/KGVI	HR	V	1900	1000						
TLV-ACGIH					1884	1000)			
Predicted n	o-effect cond	entration - P	NEC							
Normal value	e in fresh wate	ər			0,96			mg/l		
Normal value	e in marine wa	ater			0,79			mg/l		
Normal value	e for fresh wa	ter sediment			3,6			mg/kgSS		
Normal value	e for marine w	ater sediment	t		2,9			mg/kgSS		
Normal of S	TP microorga	nisms			580			mg/l		
Normal value	e for the food	chain (second	lary poisonin	ıg)	0,72			g/kg cibo		
Normal value	e for the terres	strial compartr	nent		0,63			mg/kgSS		
Health - Dei	rived no-effeo	ct level - DNE	L / DMEL							
		Effects on co	onsumers		Effects	on w	orkers			
Route of	Acute	Acute	Chronic	Chronic	Acut		Acute	Chronic	Chronic	
exposure	local	systemic	local	systemic	loca	al	systemic	local	systemic	
Oral			VND	87 mg/kg/d						
Inhalation	950 mg/m ³	VND	VND	114 mg/m ³	1900 mg/r	-	VND	VND	950 mg/m ³	
Skin			VND	206 mg/kg/d	VNI	C	343 mg/kg/d			

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.

ACETONE



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Indicator: acetone in urine. Period: end of shift. IBE: 50 mg / I Note: Ns.

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.

For industrial/professional uses provide local exhaust ventilation (LEV) where emissions occur (dilution efficiency: 90%).

HAND PROTECTION

Use category III gloves (ref. standard EN 374). For definitive choice of gloves material consider: compatibility, degradation, breakthrough time and permeation. Work gloves wear time depends upon duration and type of wear. Suitable gloves (protection factor 2, permeation time 30-60 minutes), material (thickness, mm): butyl rubber (0,7 mm). SKIN PROTECTION

Wear category II 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 presented in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

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.

The systems of abatement of gaseous effluents should include scrubbers or carbon filters that guarantee an efficiency of more than 90%. Any liquid effluents should be conveyed to a water treatment plant with an efficiency of at least 96.2%. In the case of a municipal waste water treatment plant, the daily flow rate should be at least 2000 m³.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance:	Aerosol	
Colour:	Variable (straw, green, blue)	
Odour:	Characteristic	
Odour threshold:	2 mg/m ³	Remark:Cometto-Munitz, Abraham 2009. Substance:ACETONE
pH:	Not applicable	
Melting point/freezing point:	Not applicable	
Initial boiling point:	Not applicable	
Boiling range:	Not applicable	
Flash point:	Not applicable	
Evaporation rate:	Not determined	
Flammability of solids and gases:	Not applicable	
Lower inflammability limit:	1,86 % (V/V)	Substance:PROPANE
Upper inflammability limit:	15 % (V/V)	Substance:PROPANE
Lower explosive limit:	1,86 % (V/V)	Substance:PROPANE
Upper explosive limit:	15 % (V/V)	Substance:PROPANE
Vapour pressure:	Not available	Substance:ACETONE
Vapour density:	Not determined	Temperature: 20 °C
Relative density:	0,71	
Solubility:	Insoluble in water	
Partition coefficient: n-octanol/water:	Not determined	
Auto-ignition temperature:	226 °C	Substance:DIMETHYLETHER
Decomposition temperature:	Not determined	
Viscosity:	Not determined	
Explosive properties:	Possible formation of explosiv vapours	e mixtures between air and
Oxidizing properties:	Not applicable. None of the confunctional groups associated v	



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9.2. Other information

VOC (Directive 2010/75/EC):	73,79 %	-	523,91	g/litre
VOC (volatile carbon):	54,25 %	-	385,20	g/litre

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions with other substances are foreseeable under normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of usage and storage for 36 months.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

Reacts violently with: strong oxidizing agents. Attacks various types of plastic materials.

PROPANE

Avoid contact with: oxidizing agents, strong acids, strong alkalis, hypochlorites, nitrates, peroxides.

ACETONE

May react dangerously with: strong oxidizing agents, strong reducing agents. Forms peroxides with: strong oxidizing agents.

N-BUTANE

Avoid contact with: oxidizing agents, strong acids, strong alkalis, hypochlorites, nitrates, peroxides.

ISO-BUTANE

Avoid contact with: oxidizing agents, strong acids, strong alkalis, hypochlorites, nitrates, peroxides.

10.4. Conditions to avoid

Refer to section 7.

Avoid contact with acids and bases which can deteriorate the can. Avoid exposition to: high temperatures (>50 °C), naked flames, ignition sources, heat sources, overheated surface, heat. Risk of explosion.



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HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

Avoid contact with: oxidizing agents. Fire hazard.

Avoid exposure to: high temperatures, heat, naked flames, ignition sources, sources of heat, electrostatic discharges, overheated surfaces.

PROPANE

Avoid exposure to: high temperatures, naked flames, ignition sources, sources of heat, overheated surfaces, heat. Possibility of explosion.

ACETONE

Avoid exposure to: sources of heat, naked flames.

N-BUTANE

Avoid exposure to: high temperatures, naked flames, ignition sources, sources of heat, overheated surfaces, heat. Possibility of explosion.

ISO-BUTANE

Avoid exposure to: high temperatures, naked flames, ignition sources, sources of heat, overheated surfaces, heat. Possibility of explosion.

10.5. Incompatible materials

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

Attacks various types of plastic materials. Attacks various types of rubber.

Compatible materials: stainless steel, teflon, polyethylene, polypropylene.

Incompatible materials: butyl rubber, natural rubber, ethylene-propylene-diene monomer (EPDM), polystyrene.

PROPANE

Avoid contact with: oxidizing agents, strong acids, strong alkalis, hypochlorites, nitrates, peroxides.

ACETONE

Incompatible with: acids, oxidizing substances. Compatible materials: steel, stainless steel, aluminium. Incompatible materials: natural rubber, neoprene.

N-BUTANE

Avoid contact with: oxidizing agents, strong acids, strong alkalis, hypochlorites, nitrates, peroxides.

ISO-BUTANE

Avoid contact with: oxidizing agents, strong acids, strong alkalis, hypochlorites, nitrates, peroxides.

10.6. Hazardous decomposition products

In the event of a fire, the substances contained may generate the following decomposition products:



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ACETONE

May develop: ketenes, irritant substances.

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

<u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available

Information on likely routes of exposure

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE Inhalation, dermal.

ACETONE Inhalation, dermal.

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

PROPANE

Contact with liquefied gas or its violent expansion can produce cold burns at the point of contact. Symptoms are redness, burning, itching, blisters and possible subsequent infections.

A high concentration causes drowsiness, headaches and dizziness, and because of the lack of oxygen it can cause asphyxiation. High concentrations can cause hypoxia and cardiotoxic effects, and if the oxygen concentration in the air falls below 17%, the result can also be fatal.

ACETONE

Inhalation: sore throat, cough, confusion, headache, dizziness, drowsiness, unconsciousness. Dermal contact: dry skin. Eyes: redness, pain, blurred vision, possible corneal damage. Ingestion: nausea, vomiting.

Interactive effects

Information not available



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ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

ETHANOL

LD50 (Oral) LC50 (Inhalation)

PROPANE

LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

ACETONE

LD50 (Oral)

LD50 (Dermal)

LC50 (Inhalation)

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

1501 mg/kg Rat 5,9 mg/l/6h Rat

> 2000 mg/kg> 2000 mg/kg> 20000 ppm/4h

5800 mg/kg rat (Freem JJ, Hayes EP, 1985, J. Toxicol. Env. Health 15: 609-621). 7400 mg/kg Guinea pig (Roudabush RL et al., 1965, Toxicol Appl Pharmacol 7: 559-565). 132 mg/l/4h rat (Bruckner JV, Petersen RC, 1981, Toxicol Apl Pharmacol 61: 27-38).

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

LD50 (Oral)	> 16750 mg/kg rat (similar OECD 401).
LD50 (Dermal)	> 3350 mg/kg rabbit (similar OECD 402).
LC50 (Inhalation)	> 20 mg/l/4h rat

ISO-BUTANE

LC50 (Inhalation)

570000 ppm/4h rat (IUCLID)

N-BUTANE

LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) > 2000 mg/kg > 2000 mg/kg 658 mg/l/4h rat

SKIN CORROSION / IRRITATION

Causes skin irritation HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE Irritating.



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SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

Acute Eye Irritation/Corrosion (similar or equivalent to OECD method 405), rabbit: not irritating (source: ECHA website).

ACETONE

Acute Eye Irritation / Corrosion (similar or equivalent to OECD method 405), rabbit: irritant (source: ECHA website).

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class:

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

Skin sensitization (Local lymph node Assay, similar or equivalent to OECD method 429): not sensitizing (source: ECHA website).

ACETONE

Skin sensitization (Guinea Pig Maximization Test): non-sensitizing (source: ECHA website).

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class:

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

In vitro genetic toxicity (Bacterial Reverse Mutation Test, Ames test, similar or equivalent to OECD method 471):	negative (source: ECHA website).
In vivo genetic toxicity (Mammalian Bone Marrow Chromosome Aberration Test, similar or equivalent to OECD method 475):	negative (source: ECHA website).
ACETONE	
In vitro genetic toxicity (Bacterial Reverse Mutation Test, Ames test, similar or equivalent OECD method 471, S. typhimurium):	negative (source: ECHA website).
In vivo genetic toxicity (Mammalian Erythrocyte Micronucleus Test):	negative (source: ECHA website).



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CARCINOGENICITY

Does not meet the classification criteria for this hazard class:

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE

Carcinogenicity studies (OECD method 451):

no evidence of carcinogenic effects. NOEC (inhalation, mouse) = 31680 mg/m3 (source: ECHA website).

ACETONE

Acetone has been used extensively as a carrier in dermal carcinogenicity studies on several mouse species. There is no evidence of an increased incidence of tumors in the control groups treated with acetone alone, demonstrating a lack of carcinogenic potential of acetone (source: ECHA website).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class:

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE Two generation Reproduction Toxicity (OECD 416): NOAEC (inhalation, mice male/female) = 31680 mg/m³ (source: ECHA website).

PROPANE

Reproduction / Developmental Toxicity Screening test (OCSE method 422): there are no indications of damaging effects on fetuses and development (source: supplier data).

ACETONE

Exposure to acetone doses of 5000 mg/L in drinking water for 8 weeks or 10000 mg/L in drinking water for 4 weeks had no adverse effects on the fertility of rat males (source: Dalgaard M et al., Pharmacol Toxicol 86: 92-100, 2000).

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness.

Target organ HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE Central nervous system.

ACETONE Central nervous system.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.



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PROPANE

Neurological, haematological, or clinical effects were not observed in studies conducted over a 6-week period in male and female rats. At 12,000 ppm, male animals showed a 25% decrease in weight during the first week of exposure. The lowest concentration at which adverse effects were observed (LOAEC) in these studies was 12,000 ppm (equivalent to 21641 mg/m³).

ASPIRATION HAZARD

Toxic for aspiration.

SECTION 12: ECOLOGICAL INFORMATION

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

12.1. Toxicity

ETHANOL LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea	14200 mg/l /96h Pimephales promelas 275 mg/l /72h Chlorella vulgaris 9,6 mg/l Daphnia magna
ACETONE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	> 6210 mg/l /96h Pimephales promelas 8800 mg/l /48h Daphnia pulex > 100 mg/l /72h Selenastrum capricornutum
HYDROCARBONS, C6, ISO-ALKAN EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	3870 mg/l /48h Daphnia magna
12.2. Persistence and degradability	y
ETHANOL Solubility in water Rapidly degradable	> 1000 mg/l
PROPANE Solubility in water Rapidly degradable	0,1 - 100 mg/l
ACETONE	

ACETONE Rapidly degradable



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Rapidly degradable	
ISO-BUTANE Solubility in water Rapidly degradable	0,1 - 100 mg/l
N-BUTANE Solubility in water Rapidly degradable	0,1 - 100 mg/l
12.3. Bio accumulative potential	
ETHANOL Partition coefficient: n-octanol/water	- 0,35
PROPANE Partition coefficient: n-octanol/water BCF	2,86 13
ACETONE Partition coefficient: n-octanol/water BCF	- 0,23 3
HYDROCARBONS, C6, ISO-ALKANES, <5% n Partition coefficient: n-octanol/water	-HEXANE 3,6 (at 20 °C)
ISO-BUTANE Partition coefficient: n-octanol/water BCF	2,76 27
N-BUTANE Partition coefficient: n-octanol/water BCF	2,89 33
12.4. Mobility in soil	
PROPANE Partition coefficient: soil/water	2,66
HYDROCARBONS, C6, ISO-ALKANES, <5% n Partition coefficient: soil/water	-HEXANE 1,78
ISO-BUTANE Partition coefficient: soil/water	1,54

HYDROCARBONS, C6, ISO-ALKANES, <5% n-HEXANE



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N-BUTANE Partition coefficient: soil/water

2,95

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.

PROPANE

The product degrades rapidly in the air through photochemical reactions. Lifetime in the atmosphere can be considered very few days, with virtually zero ozone depletion potential. The global warming potential (GWP) is 3. Only under certain conditions, through the complex interaction with other atmospheric pollutants present and in certain climatic and meteorological conditions, near the surface, photochemical degradation could contribute to the formation of tropospheric ozone.

N-BUTANE

The product degrades rapidly in the air through photochemical reactions. Lifetime in the atmosphere can be considered very few days, with virtually zero ozone depletion potential. The global warming potential (GWP) is 4. Only under certain conditions, through the complex interaction with other atmospheric pollutants present and in certain climatic and meteorological conditions, near the surface, photochemical degradation could contribute to the formation of tropospheric ozone.

ISO-BUTANE

The product degrades rapidly in the air through photochemical reactions. Lifetime in the atmosphere can be considered very few days, with virtually zero ozone depletion potential. The global warming potential (GWP) is 3. Only under certain conditions, through the complex interaction with other atmospheric pollutants present and in certain climatic and meteorological conditions, near the surface, photochemical degradation could contribute to the formation of tropospheric ozone.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and / or its container must be determined in accordance with the provisions of Directive 2008/98/EC and its amendments, taking into account Regulation (EU) n.1357/2014, Decision (EU) n.955/2014 and Regulation (EU) n.997/2017. Methods for waste management must be evaluated case by case, in relation to the composition of the waste itself.



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13.1. Waste treatment methods

Waste management is carried out without endangering human health and without harming the environment and without risk to water, air, soil, plants or animals. Do not dispose of waste into the drains or sewers. The product residues must be disposed of according to current regulations addressing to authorized companies. Waste transport must also be carried out in accordance with the regulations on the transport of dangerous goods.

CONTAMINATED PACKAGING. The generation of waste should be avoided or minimized wherever possible. The incineration and landfilling should be considered when recycling is not feasible. Maintain label(s) on the packaging. Deliver contaminated packaging to an authorized waste management company. The containers and packing materials contaminated with substances or preparations must be treated like the product and sent for recovery or disposal in compliance with national waste management regulations.

EUROPEAN WASTE CATALOGUE CODE. Current legislation does not allow the attribution of EWC codes for wastes containing the substance / preparation referred to herein, as they must be identified on the basis of information not available before use of the product.

The following EWC codes are suggested exclusively for the intact product which has not subject to manipulation and its packaging when disposed empty.

08 04 09* - waste adhesives and sealants containing organic solvents or other hazardous substances.

15 01 11* - metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers.

PROPERTIES OF WASTE WHICH RENDER IT HAZARDOUS.

Properties of waste which render it hazardous (intact product) in compliance with Regulation (UE) n. 1357/2014:

HP3 Flammable

HP4 Irritant — skin irritation and eye damage HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP14 Ecotoxic

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS MIXTURE



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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: Special Provision: -	Limited Quantities: 1 L	Tunnel restriction code: (D)
IMDG: IATA:	EMS: F-D, S-U Cargo: Pass.: Special Instructions:	Limited Quantities: 1 L Maximum quantity: 150 Kg Maximum quantity: 75 Kg A145, A167, A802	Packaging instructions: 203 Packaging instructions: 203

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

Information not relevant.



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SECTION 15: REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC: P3a-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product: Point 40

Substances 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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 3: Severe hazard to waters

15.2. Chemical safety assessment.

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

HYDROCARBONS, C6, ISO ALKANES, <5% n-HEXANE PROPANE ACETONE **N-BUTANE ISO-BUTANE**

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.



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SECTION 16: OTHER INFORMATION

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

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Press. Gas (Liq.)	Liquefied gas
Asp. Tox. 1	Aspiration hazard, category 1
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, category2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may burst if heated.
H304	May be fatal if swallowed and enters airways.
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.

Use descriptor system:

ERC 4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC 8a	Widespread use of non- reactive processing aid (no inclusion
	into or onto article, indoor)
PC 1	Adhesives, sealants
PROC 11	Non industrial spraying
PROC 7	Industrial spraying
PROC 8b	Transfer of substance or mixture (charging and discharging) at
	dedicated facilities

LEGEND:

- 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)



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- 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

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)



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- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.