MATERIAL SAFETY DATA SHEET

AIRVIK-9

Strong tack aerosol adhesive for multipurpose temporary positioning of layers

► SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Name of product:	AIRVIK-9
Article:	Aerosol adhesive
Company name:	VIK-COMPOSITE GmbH
Street/POB No.:	Forststrasse, 31
State/city/postal code:	73529 Strassdorf (Schwäbisch Gmünd) Germany
Telephone:	+49 07171 2923
Telefax:	+49 07171 2924
E-mail:	sales@vik-composite.com
Description:	Adhesive for composite materials
Size:	500 ml

► 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 2020/878.
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
Eye irritation, category 2	H319	Causes serious eye irritation
Skin irritation, category 2	H315	Causes skin irritation
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness and dizziness
Hazardous to 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.

Hazard pictograms:

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.
P211	Do not spray on an open flame or other ignition source
P251	Do not pierce or burn, even after use.
P273	Avoid release to the environment.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

► SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixture

Contains :

Identification : **x = Conc.%** **Classification 1272/2008 (CLP)**

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

INDEX		25 ≤ x < 40	***Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411***
EC	*931-254-9*		
CAS	*64742-49-0*		
REACH Reg.	*01-2119484651-34-XXXX*		
PROPANE			
INDEX	*601-003-00-5*	*9 ≤ x < 24*	***Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U***
EC	*200-827-9*		
CAS	*74-98-6*		
REACH Reg..	*01-2119486944-21-XXXX*		
ACETONE			
INDEX	*606-001-00-8*	*10 ≤ x < 20*	**Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066**
EC			
CAS	*67-64-1*		

REACH Reg.	*01-2119471330-49-XXXX*		
BUTANE			
INDEX		*9 ≤ x < 24*	***Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U***
EC	*203-448-7*		
CAS	*106-97-8*		
EC	*200-857-2*		
REACH Reg.	*01-2119474691-32-XXXX*		
ETHANOL			
INDEX	*603-002-00-5*	*1 ≤ x < 5*	***Flam. Liq. 2 H225, Eye Irrit. 2 H319***
EC	*200-578-6*		
CAS	*64-17-5*		
REACH Reg.	*01-2120768140-61-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.
Percentage of propellants: 28,94%

► 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. Wash with running water. If the problem persists seek medical advice. 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

No specific information is known about the symptoms and effects caused by the product. For symptoms and effects due to contained substances, see section 11.

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

When consulting a doctor, have the safety data sheet available or, in the absence thereof, the label.

► 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
Direct 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.
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. Remove all containers containing the product from the fire, if it is safe to do so.
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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped.
Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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

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.

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)

Refer to the product data sheet. Also refer to the information on safe use when attached to this safety data sheet.

► SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Regulatory references:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL – OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 – INRS
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LTV	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy

PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
RU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Onlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; 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 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

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

Theshhold limit value					
Type	Country	TWA/8h		STEL/15 min	Remarks/Observations
		mg/m³	ppm	mg/m³ ppm	
TLV-ACGIH		1200	353		

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1301 mg/kg bw/d				
Inhalation				1131 mg/m³				5306 mg/m³
Skin				1377 mg/kg bw/d				13964 mg/kg bw/d

PROPANE

Theshhold limit value						
Type	Country	TWA/8h		STEL/15 min		Remarks/Observations
		mg/m³	ppm	mg/m³	ppm	
TLV	BGR	1800				
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
VLA	ESP		1000			
TLV	EST	1800	1000			
HTP	FIN	1500	800	2000	1100	
RV	LVA	1800	100			
NDS/NDSCh	POL	1800				
TLV	ROU	1400	778	1800	1000	
TLV-ACGIH			1000	400		

ACETONE

Theshhold limit value				
Type	**Country**	**TWA/8h**	**STEL/15 min**	**Remarks/Observations**
		mg/m³ ppm	mg/m³ ppm	
TLV	BGR	600	1400	
TLV	SZE	800 333,2	1500 621	
AGW	DEU	1200 500	2400 (C) 1000 (C)	
MAK	DEU	1200 500	2400 1000	
VLA	ESP	1210 500		
TLV	EST	1210 500		
VLEP	FRA	1210 500	2420 1000	
HTP	FIN	1200 500	1500 630	
AK	HUN	1210		
GVI/KGVI	HRV	1210 500		
VLEP	ITA	1210 500		
RD	LTU	1210 500		SKIN
RV	LVA	1210 500		
NDS/NDSCh	POL	600	1800	
VLE	PRT	1210 500		
TLV	ROU	1210 500		
NGV/KGV	SWE	600 250	1200 (C) 500 (C)	
ESD	TUR	1210 500		
WEL	GBR	1210 500	3620 1500	
OEL	EU	1210 500		
TLV-ACGIH		250	500	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	10,6	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	2,95	mg/kg

Health - Derived no-effect level - DNEL / DMEL	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				62 mg/kg bw/d				
Inhalation				200 mg/m³		2420 mg/m³		1210 mg/m³
Skin				62 mg/kg bw/d				186 mg/kg bw/d

BUTANE

Theshhold limit value				
Type	**Country**	**TWA/8h**	**STEL/15 min**	**Remarks/Observations**
		mg/m³ ppm	mg/m³ ppm	
TLV	BGR	1900		
AGW	DEU	2400 1000	9600 4000	
VLA	ESP	1935 800		Gases
TLV	EST	4		
VLEP	FRA	1900 800		
HTP	FIN	1900 800	2400 1000	

AK	HUN	2350	9400	
GVI/KGVI	HRV	1450 600	1810 750	
RV	LVA	300		
NDS/NDSCh	POL	1900	3000	
WEL	GBR	1450 600	1810 750	
TLV-ACGIH			1000	

ETHANOL

Theshhold limit value				
Type	**Country**	**TWA/8h**	**STEL/15 min**	**Remarks/Observations**
		mg/m³ ppm	mg/m³ ppm	
TLV	BGR	1000		
TLV	CZE	1000 522	3000 1566	
AGW	DEU	380 200	1520 800	
MAK	DEU	380 200	1520 800	
VLA	ESP		1910 1000	
TLV	EST	1000 500	1910 1000	
VLEP	FRA	1900 1000	9500 5000	
HTP	FIN	1900 1000	2500 5000	
AK	HUN	1900		
GVI/KGVI	HRV	1900 1000		
RD	LTU	1000 500	1900 1000	
RV	LVA	1000		
NDS/NDSCh	POL	1900		
TLV	ROU	1900 1000	9500 5000	
NGV/KGV	SWE	1000 500	1900 (C) 1000 (C)	
WEL	GBR	1920 1000		
TLV-ACGIH			1884 1000	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,96	mg/l
Normal value in marine water	0,79	mg/l
Normal value for fresh water sediment	3,6	mg/kg
Normal value for marine water sediment	2,9	mg/kg
Normal value for water, intermittent release	2,75	mg/l
Normal of STP microorganisms	580	mg/l
Normal value for the food chain (secondary poisoning)	380	mg/kg
Normal value for the terrestrial compartment	0,63	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				**Effects on workers**			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		87 mg/kg bw/d				
Inhalation	950 mg/m³	NPI	NPI	114 mg/m³	1900 mg/m³	NPI	NPI	950 mg/m³
Skin		NPI	NPI	206 mg/kg bw/d	NPI	NPI	NPI	343 mg/kg bw/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, LOW = low hazard; MED = medium hazard ; HIGH = high hazard.

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.
The following should be considered when choosing work glove material (see standard EN 374): 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 duration and type of use.
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.
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.

► SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance:	Aerosol	
Colour:	Straw yellow	
Odour:	Characteristic of solvent	
Melting point/freezing point:	Not applicable	Reason for missing data: not applicable
Initial boiling point:	-161,48 °C	Remark: ECHA website Substance: Butane
Flammability :	Flammable aerosol	
Lower explosive limit:	1,4 % (V/V)	Remark: GESTIS website Substance: Butane
Upper explosive limit:	27,7 % (V/V)	Remark: GESTIS website Substance: Ethanol
Flash point:	Not applicable	Reason for missing data: not applicable

Auto-ignition temperature:	264 °C	Remark: ECHA website Substance: Hydrocarbons, C6, isoalkanes, <5% n-hexane
Decomposition temperature:	Not applicable	Reason for missing data: not applicable
pH:	Not applicable	Reason for missing data: substance/mixture is non-soluble (in water)
Kinematic viscosity:	Not applicable	Reason for missing data: not applicable
Solubility:	Soluble in organic solvents	
Partition coefficient: n-octanol/water:	Not determined	Reason for missing data: not determined
Vapour pressure:	850 kPa	Temperature: 50°C
Density and/or relative density:	0,7 g/cm^3	
Relative vapour density:	2,08	Remark: GESTIS website Substance:Butane
Particle characteristics:	Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Information not available

9.2.2. Other safety characteristics
VOC (Directive 2010/75/EC): 68,20 % - 477,40 g/litre
VOC (volatile carbon): 53,61 % - 375,26 g/litre

► SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.
Acetone
Decomposes under the effect of heat.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

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, peroxymonosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

ETHANOL
Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating.
Acetone
Avoid exposure to: sources of heat,naked flames.
Ethanol
Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.
Acetone
Incompatible with: acids, oxidising substances.

10.6. Hazardous decomposition products

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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information
Information not available

Information on likely routes of exposure
Information not available

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

Information not available

Interactive effects
Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

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

LD50 (Dermal):	> 3350 mg/kg Rabbit
LD50 (Oral):	> 16750 mg/kg Rat
LC50 (Inhalation vapours):	> 299354 mg/l/4h Rat

PROPANE

LC50 (Inhalation vapours):	5,768 mg/l/1h Rat

ACETONE

LD50 (Dermal):	7400 mg/kg Rabbit
LD50 (Oral):	5800 mg/kg bw Rat (ECHA website)
LC50 (Inhalation mists/powders):	76 mg/l/4h Rat (ECHA website)

BUTANE

LC50 (Inhalation vapours)	5,42 mg/l/1h Rat

ETHANOL

LD50 (Oral):	1187 mg/kg bw Rat (ECHA website)
LC50 (Inhalation vapours):	115,9 mg/l/4h Rat (ECHA website)

SKIN CORROSION / IRRITATION
Causes skin irritation

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

REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE
May cause drowsiness or dizziness.

STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD
Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

11.2. **Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

► 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 aquatic environment.

12.1. Toxicity

PROPANE

LC50 - for Fish	49,9 mg/l/96h
EC50 - for Crustacea	27,1 mg/l/48h
EC50 - for Algae / Aquatic Plants	11,9 mg/l/72h

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

LC50 - for Fish	18,27 mg/l/96h (ECHA website)
EC50 - for Crustacea	31,9 mg/l/48h (ECHA website)
EC50 - for Algae / Aquatic Plants	13,56 mg/l/72h (ECHA website)
Chronic NOEC for Fish	4,089 mg/l 28 d (ECHA website)
Chronic NOEC for Crustacea	7,138 mg/l/21 d (ECHA website)
Chronic NOEC for Algae / Aquatic Plants	3,034 mg/l/72h (ECHA website)

ACETONE

LC50 - for Fish	5540 mg/l/96h (ECHA website)
EC50 - for Crustacea	8800 mg/l/48h (ECHA website)
Chronic NOEC for Algae / Aquatic Plants	430 mg/l (ECHA website)

ETHANOL

LC50 - for Fish	14,2 g/l/96h (ECHA website)
EC50 - for Algae / Aquatic Plants	275 mg/l/72h (ECHA website)
Chronic NOEC for Crustacea	9,6 mg/l (ECHA website)

12.2. Persistence and degradability

PROPANE
Rapidly degradable

BUTANE
Rapidly degradable

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

ACETONE
Rapidly degradable

ETHANOL
Solubility in water 1000 - 10000 mg/l
Rapidly degradable

12.3. Bioaccumulative potential

PROPANE
Partition coefficient: n-octanol/water 2,36
BCF 1,56

BUTANE
Partition coefficient: n-octanol/water < 3

ACETONE
Partition coefficient: n-octanol/water - 0,23
BCF 3

ETHANOL
Partition coefficient: n-octanol/water - 0,35

12.4. Mobility in soil
Information not available

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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: 1950

14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1	
IMDG:	Class: 2	Label: 2.1	
IATA:	Class: 2	Label: 2.1	

14.4. Packing group

ADR / RID, IMDG, IATA: -

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:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Passengers:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special provisions:	A145, A167, A802	

14.7. Transport in bulk according IMO instruments

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:

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

Product:
Point 40
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
Regulated explosives precursor
The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.
All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH):
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH):
None

Substances subject to exportation reporting pursuant to Regulation (EC) 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 2: Hazard to waters

15.2. Chemical safety assessment.

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

► 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.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)

4. Regulation (EC) 790/2009 (I Atp. CLP) 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)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV 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. VIK-COMPOSITE GmbH is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.