

Trade name: SENSENE™ Modified Alcohol Solvent**Current version :** 2.2.0, issued: 22.08.2024**Replaced version:** 2.1.1, issued: 25.03.2024**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

SENSENE™ Modified Alcohol Solvent**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Use in textile cleaning - industrial use

Uses advised against

Uses which are not mentioned in the relevant identified uses.

1.3 Details of the supplier of the safety data sheet**Address**SAFE CHEM Europe GmbH
Tersteegenstr. 25
40474 Düsseldorf
GermanyTelephone no. +49 211 4389300
Fax no. +49 211 4389389
e-mail service@safechem.com**Advice on Safety Data Sheet**

sds@safechem.com

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Asp. Tox. 1; H304

Flam. Liq. 3; H226

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

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Hazard statement(s)

H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331 Do NOT induce vomiting.
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	Modified alcohol		
	-	-	>= 50.00 - <= 70.00 wt%
	-		
	-		
2	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics		
	-	Asp. Tox. 1; H304	>= 30.00 - <= 50.00 wt%
	920-901-0	EUH066	
	-		
	01-2119456810-40		

Full Text for all H-phrases and EUH-phrases: pls. see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. If the patient is likely to become unconscious, place and transport in stable sideways position. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. If breathing is irregular or stopped, administer artificial respiration. Take medical treatment.

After skin contact

In case of contact with skin wash off immediately with soap and water.

After eye contact

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Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Do not induce vomiting - aspiration hazard. Call a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed**Effects**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Carbon dioxide; Alcohol-resistant foam; Dry chemical extinguisher

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Heat causes increase in pressure and risk of bursting. Cool closed containers exposed to fire with water. Containers close to fire should be transferred to a safe place. Product floats on the water surface and may reignite. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Only engage trained and adequately protected personnel. Refer to protective measures listed in sections 7 and 8. Do not inhale vapours. Keep away from ignition sources.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Prevent spread over a wide area (by containment with sand or earth). Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Pump off large amounts. Use explosion-proof apparatus and fittings. Prevent evaporation of the product by using suitable foam.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good room ventilation even at ground level (vapours are heavier than air).

General protective and hygiene measures

Do not inhale vapours. Do not eat, drink or smoke during work time. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)
Industry solution

For further information contact supplier.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
DNEL, DMEL and PNEC values
DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Modified alcohol			-	
	dermal	Long term (chronic)	systemic	22.1	mg/kg/day
	inhalative	Long term (chronic)	systemic	133	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Modified alcohol			-	
	oral	Long term (chronic)	systemic	1.67	mg/kg/day
	dermal	Long term (chronic)	systemic	5.26	mg/kg/day
	inhalative	Long term (chronic)	systemic	15.8	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	Modified alcohol		-	
	water	fresh water	1	mg/L
	water	marine water	0.1	mg/L
	water	fresh water sediment	1.16	mg/kg dry weight
	water	marine water sediment	1.16	mg/kg dry weight
	soil	-	0.1	mg/kg dry weight
	sewage treatment plant	-	10	mg/L

8.2 Exposure controls

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Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Self-contained breathing apparatus. Short term: filter apparatus.

Respirator A

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material chlorinated polyethylene (CPE)
 Appropriate Material neoprene
 Appropriate Material nitrile (NBR)
 Appropriate Material Polyethylene
 Appropriate Material ethyl vinyl alcohol laminate (EVAL)
 Appropriate Material viton

Appropriate Material In case of short-term contact / splash protection:

Material thickness > 0.35 mm
 Breakthrough time > 60 min

Appropriate Material In case of longer-term contact:

Material thickness > 0.35 mm
 Breakthrough time > 240 min

Other

Chemical-resistant work clothes.

Environmental exposure controls

Information regarding safe handling, see chapter 7. Information regarding waste disposal, see chapter 13.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
liquid	
Colour	
colourless	
Odour	
mild	
pH value	
Not applicable	
reason for missing pH	substance/mixture is non-polar/aprotic
Boiling point / boiling range	
Value	180 °C
Reference pressure	760 mm Hg
Melting point/freezing point	

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No data available			
Decomposition temperature			
No data available			
Flash point			
Value	>=	58	°C
Method	ISO 2719a		
Ignition temperature			
No data available			
Auto-ignition temperature			
Value		236	°C
Method	DIN EN 14522		
Oxidising properties			
not oxidizing			
Explosive properties			
Product does not present an explosion hazard.			
Flammability			
No data available			
Lower explosion limit			
Value		38	g/m ³
Method	DIN EN 1839		
Source	@ 100 °C (Physikalisch-Technische Bundesanstalt (PTB) Braunschweig)		
Upper explosion limit			
Value		7.0	% vol
Vapour pressure			
Value		0.054	kPa
Reference temperature		20	°C
Relative vapour density			
No data available			
Relative density			
Value		0.839	
Reference temperature		20	°C
Density			
No data available			
Solubility in water			
Value		0.5	%
Reference temperature		20	°C
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
	log Pow		0.42
	Source	supplier	
Kinematic viscosity			
No data available			
Particle characteristics			
No data available			

9.2 Other information

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Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Hazard of decomposition at higher temperatures. Protect from heat and direct sunlight. Do not distill to dryness.

10.5 Incompatible materials

strong acids; strong bases; strong oxidizing agents

10.6 Hazardous decomposition products

Aldehydes; Ketones; organic acids

SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
LD50		3300	mg/kg bodyweight
Species	rat		
Source	supplier		
2	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
LD50		5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA / Read across		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
LD50		2000	mg/kg bodyweight
Species	rat		
Source	supplier		
2	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
LD50		2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA / Read across		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
LC50		5.25	mg/l
Duration of exposure		4	h
State of aggregation	mist		
Species	rat		
Source	supplier		
2	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
LC50		4951	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		

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Species	rat
Method	OECD 403
Source	ECHA / Read across

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
Species	rabbit		
Method	OECD 405		
Source	ECHA / Read across		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA / Read across		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No data available			

Carcinogenicity			
No data available			

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
Route of exposure	oral		
NOAEL	>	1000	mg/kg bw/d
Species	rat		
Method	OECD 408		
Source	ECHA / Read across		

Aspiration hazard			
No data available			

Endocrine disrupting properties			
No data available			

11.2 Information on other hazards

Other information
 No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			

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No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
LC50	>	1000	mg/l
Duration of exposure		96	h
Species	Poecilia reticulata		
Source	supplier		
2	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
LL50	>	1000	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA / Read across		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
NOEC	>	300	mg/l
Duration of exposure		14	h
Species	Oncorhynchus mykiss		
Source	supplier		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
EC50	>	1000	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA / Read across		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
NOEC		10	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	supplier		
2	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
NOELR		1	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
EL50	>	1000	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA / Read across		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	-	920-901-0
NOELR	>	1000	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		

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Bacteria toxicity
No data available

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
Value	18	-	32 %
Duration			28 day(s)
Method	OECD 301 B		
Source	supplier		
Value		25	%
Duration		28	day(s)
Method	OECD 302 B		
Source	supplier		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
BCF			4
Species	Oncorhynchus mykiss		
Source	supplier		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Modified alcohol	-	-
log Pow			0.42
Source	supplier		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
SENSENE™ Modified Alcohol Solvent	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN1993
IMDG	UN1993
ICAO-TI / IATA	UN1993

14.2 UN proper shipping name

ADR/RID/ADN	FLAMMABLE LIQUID, N.O.S.
Technical name	Modified alcohol, Hydrocarbons, C11-C13, isoalkanes, <2% aromatics mixture

IMDG	FLAMMABLE LIQUID, N.O.S.
Technical name	modified alcohol/ Hydrocarbons, C11-C13, isoalkanes, <2% aromatics mixture

ICAO-TI / IATA	Flammable liquid, n.o.s.
Technical name	modified alcohol/ Hydrocarbons, C11-C13, isoalkanes, <2% aromatics mixture

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	3
Label	3
Classification code	F1
Tunnel restriction code	D/E
Hazard identification no.	30

IMDG - Class	3
Label	3

ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

ADR/RID/ADN	III
IMDG	III
ICAO-TI / IATA	III

14.5 Environmental hazards

EmS	F-E, S-E
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14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

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The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.		No 3, 40
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances		
This product is subject to Part I of Annex I, risk category:		P5c
Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)		
VOC content	100.00 %	
Other regulations		
Adhere to the national sanitary and occupational safety regulations when using this product.		

15.2 Chemical safety assessment

Chemical safety assessments have been conducted for the substances in this mixture. For a mixture a chemical safety assessment according to (EC) 1907/2006 is not mandatory.

SECTION 16: Other information

Further information

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Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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