FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

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

# 1.1. Product identifier

FINO SPANN-EX Silicone Surface Tension Reducer

REF 14225 / 14227

#### Further trade names

**ACETONE** 

ISOPROPYL ALCOHOL

Product group: Alkohole

UFI: 0FD8-Y1KW-N00E-TD7W

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

#### Use of the substance/mixture

Material for the reduction of surface tension

## Uses advised against

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

## 1.3. Details of the supplier of the safety data sheet

Company name: FINO GmbH
Street: Mangelsfeld 18
Place: D-97708 Bad Bocklet
Telephone: +49-97 08-90 94 20

 Telephone:
 +49-97 08-90 94 20
 Telefax: +49-97 08-90 94 21

 e-mail:
 info@fino.com
 Internet: www.fino.com

 Contact person:
 Joachim Mahlmeister
 Telephone: +49-97 08-90 94 20

e-mail: info@fino.com

Responsible Department: This number can only be reached during our office hours, Monday to Friday from

8 a.m. to 5 p.m.

**1.4. Emergency telephone** +49-89-1 92 40

number: POISON CENTER München

24 hour(s) 7 day(s)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# **GB CLP Regulation**

Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

Classification according to Regulation (EC) No 1272/2008 [CLP]

# 2.2. Label elements

#### **GB CLP Regulation**

## Hazard components for labelling

acetone; propan-2-one; propanone

Signal word: Danger

Pictograms:







FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

Revision date: 09.01.2024 REF 14225 / 14227 Page 2 of 11

# **Hazard statements**

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

#### **Precautionary statements**

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

smokina.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

No further data.

### Additional advice on labelling

Classification according to Regulation (EC) No 1272/2008 [CLP]

#### 2.3. Other hazards

"The product is liable to marking based on the evaluation procedure of the ""General Directive for Classification of Preparations of the EC"" in the lasted valid version."

Narcotic effects

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

#### 3.2. Mixtures

## **Chemical characterization**

Mixture from the below listed substances with harmless additives.

# **Hazardous components**

CAS No	Chemical name							
	EC No	Index No	dex No REACH No					
	Classification (GB CLP Regula	Classification (GB CLP Regulation)						
67-64-1	acetone; propan-2-one; propanone							
	200-662-2	606-001-00-8	06-001-00-8					
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066							
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol							
	200-661-7	603-117-00-0	D3-117-00-0					
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336							

Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity				
	Specific Conc. L	imits, M-factors and ATE					
67-64-1	200-662-2 acetone; propan-2-one; propanone						
	inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg						
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	25-50 %				
	dermal: LD50 = 12800 mg/kg; oral: LD50 = 5050 mg/kg						

# **SECTION 4: First aid measures**



FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

Revision date: 09.01.2024 REF 14225 / 14227 Page 3 of 11

#### 4.1. Description of first aid measures

#### **General information**

Immediately remove any contaminated clothing, shoes or stockings.

Remove casualty to fresh air and keep warm and at rest.

#### After inhalation

Provide fresh air.

Seek medical attention if problems persist.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

#### After contact with eyes

Rinse opened eye for several minutes under running water.

In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Seek medical attention if problems persist.

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

Headache, Dizziness, Nausea

#### 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

Carbon dioxide (CO2), Extinguishing powder

In case of major fire and large quantities: Water spray jet, alcohol resistant foam

# Unsuitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide, Carbon monoxide

In use may form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Cool containers at risk with water spray.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

## General advice

Use appropriate respiratory protection. Provide adequate ventilation. Use personal protection equipment. Keep unprotected persons away.

# For non-emergency personnel

Emergency procedures

Remove victim out of the danger area. Remove persons to safety. The danger areas must be delimited and identified using relevant warning and safety signs.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Wear personal protection equipment (refer to section 8).

#### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not allow to enter into surface water or drains.



FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

Revision date: 09.01.2024 REF 14225 / 14227 Page 4 of 11

If product enters soil, it will be mobile and may contaminate groundwater.

Dilute with plenty of water.

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

#### 6.3. Methods and material for containment and cleaning up

#### For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Following consultation with waste management company and after biological pre-treatment, landfill together with household waste.

#### For cleaning up

For cleaning, approved industrial vacuum cleaners are recommended, dust class:

Collect in closed and suitable containers for disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed.

Protect from heat and direct sunlight.

Ensure good ventilation / exhaustion at the workplace.

Avoid the formation of aerosol.

## Advice on protection against fire and explosion

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

# Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated, saturated clothing immediately.

Wash hands before breaks and after work.

When using do not eat, drink or smoke.

Avoid contact with eyes and skin.

#### Further information on handling

No special handling advices are necessary.

# 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep only in the original container.

Keep container tightly closed in a cool place.

# Hints on joint storage

Keep away from combustible material.

## Further information on storage conditions

Keep container in a well-ventilated place.

Keep container tightly closed.

Store in cool, dry conditions in well sealed receptacles.

Betriebssicherheitsverordnung (BetrSichV) @0701.B007219

# 7.3. Specific end use(s)

Auxiliary for dental technology

### **SECTION 8: Exposure controls/personal protection**



FINO GmbH

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

Revision date: 09.01.2024 REF 14225 / 14227 Page 5 of 11

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

#### Additional advice on limit values

The lists valid during the making were used as basis.

#### 8.2. Exposure controls









#### Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tightly sealed safety glasses.

## **Hand protection**

solvent resistant gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed. Observe the wear time limits as specified by the manufacturer.

Suitable material: Butyl caoutchouc (butyl rubber) (EN ISO 374)

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

"Use breathing filter apparatus at short-time or low exposure; use breathing filter apparatus independent from circulating air at intensive resp. longer exposure."

acute Filtering device (full mask or mouthpiece) with filter: Combination filtering device

# Environmental exposure controls

Do not allow to enter into surface water or drains.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: characteristic

# Changes in the physical state

Melting point/freezing point: not determined



FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

FINO SPANN-EX Silicone Surface Tension Reducer

Boiling point or initial boiling point and

56 °C

boiling range:

Softening point: not applicable

Flash point: -10 °C

**Flammability** 

Solid/liquid: not determined

**Explosive properties** 

not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits: 2,0 vol. %
Upper explosion limits: 13,0 vol. %
Auto-ignition temperature: 425 °C

Self-ignition temperature

Solid: Product is not selfigniting.

Decomposition temperature: not determined

Water solubility: completely miscible

Partition coefficient n-octanol/water: not determined

Vapour pressure: 233 hPa

(at 20 °C)

Density (at 20 °C): 0,782 g/cm³
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion:

No data available

Oxidizing properties Not oxidising.

Other safety characteristics

Solvent content: Organic solvents: 100,0%

Maximum VOC content: - %

Solid content: not applicable Evaporation rate: not determined

**Further Information** 

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None if stored and handled according to specifications.

#### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent, strong

#### 10.4. Conditions to avoid

Protect from heat and direct sunlight.

# 10.5. Incompatible materials

Combustible substance

# 10.6. Hazardous decomposition products

No dangerous decomposition products known.



FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer 14225 / 14227

Revision date: 09.01.2024 REF 14225 / 14227 Page 7 of 11

## **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

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

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
67-64-1	acetone; propan-2-one; p	oropanone							
	oral	LD50 mg/kg	5800	Rat	RTECS				
	dermal	LD50 mg/kg	20000	Rabbit	IUCLID				
	inhalation (4 h) vapour	LC50	76 mg/l	Rat					
67-63-0	propan-2-ol; isopropyl al	cohol; isopr	opanol						
	oral	LD50 mg/kg	5050	Rat					
	dermal	LD50 mg/kg	12800	Rabbit					

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

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

# STOT-single exposure

May cause drowsiness or dizziness. (acetone; propan-2-one; propanone; propan-2-ol; isopropyl alcohol; isopropanol)

#### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

# **Aspiration hazard**

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

## Specific effects in experiment on an animal

Toxicological analyses are not available.

# Additional information on tests

In case of inhalation High concentrations can result in fatigue and vertigo. The product causes narcotic-like effects. Headache Dizziness

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: irritant.

## **Practical experience**

No special references.

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

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

#### Other information

No special precautionary measures.

#### **SECTION 12: Ecological information**



FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

Revision date: 09.01.2024 REF 14225 / 14227 Page 8 of 11

#### 12.1. Toxicity

Don't let flow into the ground water, in waters or the sewage system undiluted resp. in larger quantities,

		· ·			,	<u> </u>		
CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
67-64-1	acetone; propan-2-one; p	propanone						
	Acute fish toxicity	LC50 mg/l	5540		Onchorhynchus mykiss			
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna			
67-63-0	propan-2-ol; isopropyl alc	ohol; isoprop	oanol					
	Acute fish toxicity	LC50 mg/l	9640	96 h				
	Acute crustacea toxicity	EC50 mg/l	1400	48 h				

## 12.2. Persistence and degradability

none Evidence exists for biodegradation processes.

# 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05

## 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

No information available.

#### 12.7. Other adverse effects

No effects known.

#### **Further information**

Water hazard class slightly hazardous to water

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

## **Disposal recommendations**

Must not be disposed together with household garbage.

Do not allow to enter into surface water or drains.

Dispose of waste according to applicable legislation.

## List of Wastes Code - residues/unused products

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

# List of Wastes Code - used product

Print date: 13.02.2024



# **Safety Data Sheet**

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

Revision date: 09.01.2024 REF 14225 / 14227 Page 9 of 11

070704 WASTES

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

#### Contaminated packaging

Dispose of waste according to applicable legislation. Water, if necessary together with cleansing agents.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (acetone; propan-2-one;

propanonepropan-2-ol; isopropyl alcohol; isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

# Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (acetone; propan-2-one;

propanonepropan-2-ol; isopropyl alcohol; isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2

## Marine transport (IMDG)

14.1. UN number or ID number: UN 1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (acetone; propan-2-one;

propanonepropan-2-ol; isopropyl alcohol; isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2



FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

FINO SPANN-EX Silicone Surface Tension Reducer

EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (acetone; propan-2-one;

propanonepropan-2-ol; isopropyl alcohol; isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Flammable liquids

14.7. Maritime transport in bulk according to IMO instruments

No special precautionary measures.

## **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): 60 % (469,2 g/l) 2004/42/EC (VOC): 60 % (469,2 g/l)

Information according to 2012/18/EU P5b FLAMMABLE LIQUIDS

(SEVESO III):

Additional information: P5b

Additional information

The product is classified and labelled according to EC directives or corresponding national laws. Classification according to Regulation (EC) No 1272/2008 [CLP]

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

**Additional information** 

Betriebssicherheitsverordnung (BetrSichV)

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 2.



FINO GmbH

Print date: 13.02.2024

according to UK REACH Regulation

# FINO SPANN-EX Silicone Surface Tension Reducer

Revision date: 09.01.2024 REF 14225 / 14227 Page 11 of 11

#### Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

"IATA-DGR: Dangerous Goods Regulations by the ""International Air Transport Association"" (IATA)"

ICAO: International Civil Aviation Organization

"ICAO-TI: Technical Instructions by the ""International Civil Aviation Organization"" (ICAO)"

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Flam. Lig. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

#### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

#### Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Auxiliary for dental	PW	20	0	0	4	0	94	100
	technology								

LCS: Life cycle stages
PC: Product categories
ERC: Environmental release categories

PROC: Process categories
AC: Article categories

SU: Sectors of use

TF: Technical functions

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

<sup>\*</sup> Data changed compared with the previous version.