

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

### 1.1. Product identifier

Trade name or designation of the mixture	STEPANTEX VL 90 A
Registration number	-
Synonyms	None.
Product code	7060EU
Issue date	11/January/2022
Version number	04
Revision date	03/october/2022
Supersedes date	26-September-2023

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

Identified uses	Industrial use Mixture for further formulation Surfactant ( textile softener )
Uses advised against	None known.

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

Address	STEPAN EUROPE Chemin Jongkind CS 20127 38341 Voreppe Cedex France
Telephone	(33) 4 76 50 51 00
Fax	(33) 4 76 50 51 35
E-mail	sds.contact@stepan.com
Contact person	See email address

### 1.4. Emergency telephone number

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria VIZ Poison Control Centre	+43 1 406 43 43 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium Centre Antipoisons / Antigif centrum	070 245 245 (24h/24)
Bulgaria Emergency Medicine N.I.Pirogov"	+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Croatia Poison Control Centre	(+385 1) 23-48-342 (24h/24)
Cyprus Poison Control Emergency	1401 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Czech Republic Toxikologické informacní středisko	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Denmark Giftlinjen	82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia Poison information	16662 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland Myrkytystietokeskus	09 471 977 (24h/day)
France National Poison Information Center	Hôpital F.WIDAL : 01 40 05 48 48 , ORFILA (INRS) : 01 45 42 59 59 (24h/24 7j/7)

#### 1.4. Emergency telephone number

<b>Germany Giftnotruf der Charité (Berlin)</b>	030/19240 (Notruf)
<b>Greece Poison Information Centre telephone number</b>	(0030) 2107793777 24 hours/day
<b>Hungary Információszoigálatás akut mérgezés esetén</b>	(+36-80) 201-199 (0-24 h, díjmentesen hívható)
<b>Ireland Poisons Information Centre, Beaumont Hospital</b>	01 8092566 or 01 8379964
<b>Italy Ospedale Niguarda Ca'Granda</b>	02 661 010 29
<b>Latvia Valsts ugunsdzesibas un glabšanas dienests</b>	+371 67042473 (24h/24)
<b>Lithuania Neatidéliotina informacija apsinuodijus</b>	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Luxembourg Centre Antipoisons / Antigif centrum</b>	070 245 245 24h/24
<b>Malta Accident and Emergency Department</b>	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Netherlands National Poisons Information Centre</b>	030-2748888 Only for the purpose of informing medical personnel in cases of acute intoxications / Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
<b>Norway Norwegian Poison Information Center</b>	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Poland Poisons information Centre</b>	(00 48)(58) 47 82 22, (00 48)(58) 31 65 16
<b>Portugal CIAV - Centro de Informação Antivenenos</b>	808 250 143
<b>Romania Biroul RSI si Informare Toxicologica</b>	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
<b>Russia Toxicology Information and Advisory Center</b>	(0 07)(95) 9 28 16 47
<b>Slovakia National Toxicological Information Center</b>	+421 2 5477 4166
<b>Slovenia Urad Republike Slovenije za kemikalije</b>	++ 386 1 400 60 51 (mon-fri 9.00-17.00)
<b>Spain Servicio de Información Toxicológica</b>	+ 34 91 562 04 20 24h/365 días
<b>Sweden Giftinformationscentralen / Swedish Poisons Information Centre</b>	010-456 6700 (mon-fri 9.00-17.00)
<b>Switzerland Swiss Tox Info / Tox Info Suisse</b>	145 (24h/24)
<b>Turkey National Poison Control Center and Toxicology Department</b>	(00 90)(312) 4 33 70 01 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>United Kingdom Guy's Hospital Poisons Unit</b>	(00 44 )(1 71) 6 35 91 91

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

## Classification according to Regulation (EC) No 1272/2008 as amended

### Physical hazards

Flammable liquids Category 3 H226 - Flammable liquid and vapour.

### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 3 H412 - Harmful to aquatic life with long lasting effects.

**Hazard summary** Flammable liquid. May be ignited by heat, sparks or flames. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects. Dangerous for the environment if discharged into watercourses.

## 2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H226 Flammable liquid and vapour.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P273 Avoid release to the environment.

##### Response

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### Storage

##### Disposal

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

**Supplemental label information** None.

## 2.3. Other hazards

This mixture does not contain substances that are assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	80 - < 90	1335202-88-4 931-203-0	01-2119463889-16-0004	-	
<b>Classification:</b>	Aquatic Chronic 3;H412				
Isopropanol	5 - < 10	67-63-0 200-661-7	01-2119457558-25	603-117-00-0	
<b>Classification:</b>	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				

**Composition comments** The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 4.1. Description of first aid measures

##### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

##### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Flammable liquid and vapour.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder. Water fog.  Large Fires: Extinguish with water fog. Alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	Do not use water jet.
<b>5.2. Special hazards arising from the substance or mixture</b>	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. Fire may produce irritating, corrosive and/or toxic gases.  In the event of fire the following can be released: Sulphur Oxides (SO <sub>x</sub> ). Nitrogen Oxides (NO <sub>x</sub> ). Carbon oxides (CO <sub>x</sub> ) Hydrogen cyanide (hydrocyanic acid) (HCN)
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
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**7.2. Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)**

Not available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits****Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value
Isopropanol (CAS 67-63-0)	MAK	500 mg/m <sup>3</sup>
		200 ppm
	STEL	2000 mg/m <sup>3</sup>
		800 ppm

**Belgium. Exposure Limit Values.**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m <sup>3</sup>
		400 ppm
	TWA	500 mg/m <sup>3</sup>
		200 ppm

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m <sup>3</sup>
	TWA	980 mg/m <sup>3</sup>

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value
Isopropanol (CAS 67-63-0)	MAC	999 mg/m <sup>3</sup>
		400 ppm
	STEL	1250 mg/m <sup>3</sup>
		500 ppm

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Isopropanol (CAS 67-63-0)	TWA	980 mg/m <sup>3</sup>
		400 ppm

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value
Isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m <sup>3</sup>
	TWA	500 mg/m <sup>3</sup>

**Denmark. Exposure Limit Values**

Components	Type	Value
Isopropanol (CAS 67-63-0)	TLV	490 mg/m <sup>3</sup>
		200 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	600 mg/m <sup>3</sup>
		250 ppm
	TWA	350 mg/m <sup>3</sup>
		150 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	620 mg/m <sup>3</sup>
		250 ppm
	TWA	500 mg/m <sup>3</sup>
		200 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Isopropanol (CAS 67-63-0)	VLE	980 mg/m <sup>3</sup>
		400 ppm
<b>Regulatory status:</b> Indicative limit (VL)		
<b>Regulatory status:</b> Indicative limit (VL)		

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value
Isopropanol (CAS 67-63-0)	TWA	500 mg/m <sup>3</sup>
		200 ppm

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
Isopropanol (CAS 67-63-0)	AGW	500 mg/m <sup>3</sup>
		200 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m <sup>3</sup>
		500 ppm
	TWA	980 mg/m <sup>3</sup>
		400 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	2000 mg/m <sup>3</sup>
	TWA	500 mg/m <sup>3</sup>

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
Isopropanol (CAS 67-63-0)	TWA	490 mg/m <sup>3</sup>
		200 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

**Italy. Occupational Exposure Limits**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	600 mg/m <sup>3</sup>
	TWA	350 mg/m <sup>3</sup>

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	600 mg/m <sup>3</sup>

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
		250 ppm
	TWA	350 mg/m3
		150 ppm

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
Isopropanol (CAS 67-63-0)	TLV	245 mg/m3
		100 ppm

**Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	500 mg/m3
		203 ppm
	TWA	200 mg/m3
		81 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
		400 ppm
	TWA	500 mg/m <sup>3</sup>
		200 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1250 mg/m <sup>3</sup>
		500 ppm
	TWA	999 mg/m <sup>3</sup>
		400 ppm

**Biological limit values****Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)**

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	50 mg/l	Acetone	Urine	*
	50 mg/l	Acetone	Blood	*

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*

\* - For sampling details, please see the source document.

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*

\* - For sampling details, please see the source document.

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)****General Population**

Components	Value	Assessment factor	Notes
Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized (CAS 1335202-88-4)			
Long-term, Systemic, Dermal	37.5 mg/kg bw/day		
Long-term, Systemic, Inhalation	2.61 mg/m <sup>3</sup>		
Long-term, Systemic, Oral	1.5 mg/kg bw/day		
Isopropanol (CAS 67-63-0)			
Long-term, Systemic, Dermal	319 mg/kg bw/day	2	Repeated dose toxicity
Long-term, Systemic, Inhalation	89 mg/m <sup>3</sup>	2	Repeated dose toxicity
Long-term, Systemic, Oral	26 mg/kg bw/day	2	Repeated dose toxicity

**Workers**

Components	Value	Assessment factor	Notes
Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized (CAS 1335202-88-4)			
Long-term, Systemic, Dermal	105 mg/kg bw/day		
Long-term, Systemic, Inhalation	14.8 mg/m <sup>3</sup>		
Isopropanol (CAS 67-63-0)			
Long-term, Systemic, Dermal	888 mg/kg bw/day	1	
Long-term, Systemic, Inhalation	500 mg/m <sup>3</sup>	1	



## Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized (CAS 1335202-88-4)			
Freshwater	0.022 mg/l		
Intermittent releases	0.0191 mg/l		
Marine water	0.0002 mg/l		
Sediment (freshwater)	22.48 mg/l		
Sediment (marine water)	2.248 mg/kg		
Soil	4.483 mg/kg		
STP	2.96 mg/l	10	
Isopropanol (CAS 67-63-0)			
Freshwater	140.9 mg/l	1	
Intermittent releases	140.9 mg/l	1	
Marine water	140.9 mg/l	1	
Secondary poisoning	160 mg/kg	30	
Sediment (freshwater)	552 mg/kg		
Sediment (marine water)	552 mg/kg		
Soil	28 mg/kg		
STP	2251 mg/l	1	

## 8.2. Exposure controls

### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

#### General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin protection

##### - Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. PVC gloves are recommended.

##### - Other

Wear suitable protective clothing.

#### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### Hygiene measures

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### Environmental exposure controls

Environmental manager must be informed of all major releases.

## SECTION 9: Physical and chemical properties

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

#### Appearance

##### Physical state

Liquid.

##### Form

Paste.

##### Colour

Beige.

#### Odour

Alcoholic.

#### Odour threshold

Not available.

#### pH

2.5 - 3.5 @ 50 g/l water/isopropanol (1:1), 20°C

#### Melting point/freezing point

< 25 °C (< 77 °F)

#### Initial boiling point and boiling range

> 90 °C (> 194 °F)

#### Flash point

32.5 °C (90.5 °F) Setflash (ASTM D 3828)

#### Evaporation rate

Not available.

#### Flammability (solid, gas)

Not applicable.

#### Vapour pressure

Not available.

Vapour density	Not available.
Relative density	0.96 @ 50°C
<b>Solubility(ies)</b>	
Solubility (water)	Emulsifiable
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	2800 mPa·s @ 30°C
Explosive properties	Not explosive. Vapours may form explosive mixtures with air.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information available.

## SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	To avoid thermal decomposition, do not overheat. Avoid temperatures exceeding the flash point. Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.5. Incompatible materials	Avoid contact with acids and oxidising substances. Alkalies.
10.6. Hazardous decomposition products	No hazardous decomposition products are known. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. (COx), Hydrogen cyanide (hydrocyanic acid), Nitrogen oxides (NOx), Sulphur Oxides (SOx).

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	May cause eye irritation with susceptible persons.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### 11.1. Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
STEPANTEX VL 90 A		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg (estimated)
<b>Oral</b>		
LD50	Rat	> 4975 mg/kg (estimated)
<b>Components</b>		
<b>Species</b>		
<b>Test Results</b>		
Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized (CAS 1335202-88-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg (OECD 402)
<b>Oral</b>		
LD50	Rat	> 4480 mg/kg (EU Method B.1)
<b>Subchronic</b>		
<b>Oral</b>		
NOEL	Rat	300 mg/kg bw/day, 90 days (OECD 408)
Isopropanol (CAS 67-63-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	13900 mg/kg

Components	Species	Test Results
<b>Inhalation</b>		
LC50	Rat	25000 mg/m <sup>3</sup>
<b>Oral</b>		
LD50	Rat	5840 mg/kg
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.	
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>		
Not listed.		
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	
<b>Mixture versus substance information</b>	No information available.	
<b>Other information</b>	None known.	

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects.

Product	Species	Test Results	
STEPANTEX VL 90 A			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	IC50	Algae	2.37 - 2.68 mg/l, 72 hours (estimated)
Crustacea	EC50	Daphnia	2.47 - 2.79 mg/l, 48 hours (estimated)
Fish	LC50	Fish	2.12 - 2.39 mg/l, 96 hours (estimated)

Components	Species	Test Results	
Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized (CAS 1335202-88-4)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC10	Algae	1.48 mg/l, 72 hours (OECD 201)
	IC50	Algae	2.14 mg/l, 72 hours (OECD 201)
Crustacea	EC50	Daphnia magna	2.23 mg/l, 48 hours (EU Method C.2)
Fish	LC50	Oncorhynchus mykiss	1.91 mg/l, 96 hours (OECD 203)
<i>Chronic</i>			
Crustacea	EC10	Daphnia magna	0.346 mg/l, 21 days (OECD 211)
Fish	NOEC	Danio rerio	0.224 mg/l, 30 days (OECD 210)

**12.2. Persistence and degradability** Readily biodegradable.

### Biodegradability

#### Percent Degradation (Aerobic Biodegradation)

Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	98.9 % (OECD 301 B) Test Duration: 28 days
Isopropanol	53 % (EU Methods C.5 & C.6) Test Duration: 5 days 84 % (OECD 301 D) Test Duration: 28 days

**12.3. Bioaccumulative potential** The bioaccumulation potential is expected to be low.

**Partition coefficient**

**n-octanol/water (log Kow)**

Fatty acids, C16-18 (even numbered) and C18 unsatd., 4.77 @ 20°C  
reaction products with triethanolamine, di-Me  
sulfate-quaternized

**Bioconcentration factor (BCF)**

Fatty acids, C16-18 (even numbered) and C18 unsatd., 13  
reaction products with triethanolamine, di-Me  
sulfate-quaternized

**12.4. Mobility in soil**

**Adsorption**

**Soil/Sediment Sorption - Log Koc**

Fatty acids, C16-18 (even numbered) and C18 unsatd., 4  
reaction products with triethanolamine, di-Me  
sulfate-quaternized

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

This mixture does not contain substances that are assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Residual waste**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code**

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special precautions**

Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information**

**ADR**

**14.1. UN number** UN1987  
**14.2. UN proper shipping name** ALCOHOLS, N.O.S. (Isopropanol)  
**14.3. Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Label(s)** 3  
**Hazard No. (ADR)** 30  
**Tunnel restriction code** D/E  
**14.4. Packing group** III  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Not available.

**RID**

**14.1. UN number** UN1987  
**14.2. UN proper shipping name** ALCOHOLS, N.O.S. (Isopropanol), 3  
**14.3. Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Label(s)** 3  
**14.4. Packing group** III  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Not available.  
**14.7 Transport category** 3  
**14.8 Hazard ID** 30

## IATA

14.1. UN number	UN1987
14.2. UN proper shipping name	Alcohols, n.o.s. (Isopropanol)
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	No.
ERG Code	3L
14.6. Special precautions for user	Not available.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

## IMDG

14.1. UN number	UN1987
14.2. UN proper shipping name	ALCOHOLS, N.O.S. (Isopropanol)
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
14.6. Special precautions for user	Not available.

Segregation group : None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

ADR; IATA; IMDG; RID



## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

**Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Isopropanol (CAS 67-63-0)

**Other regulations**

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

**National regulations**

Follow national regulation for work with chemical agents.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out (mixture).

**SECTION 16: Other information**

**List of abbreviations**

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006)  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008  
CAS: Chemical Abstract Service  
EINECS: European Inventory of Existing Commercial Chemical Substances  
PBT: Persistent, bioaccumulative, toxic  
vPvB: very Persistent, very Bioaccumulative  
BLV: Biological Limit Value  
LD50: Lethal Dose 50%  
EC50: Effective Concentration 50%  
LC50: Lethal Concentration 50%  
IC50: Inhibition Concentration 50%  
ES: Exposure scenario  
CSR: Chemical Safety Report  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
ADR: European agreement concerning the international carriage of dangerous goods by road  
RID: Regulations concerning the international carriage of dangerous goods by rail  
IMDG Code: International Maritime Dangerous Goods Code  
IATA: International Air Transport Association

**References**

Not available.

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any H-statements not written out in full under Sections 2 to 15**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

**Revision information**

SECTION 2: Hazards identification: Response  
Composition / Information on Ingredients: Disclosure Overrides  
Physical & Chemical Properties: Multiple Properties

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

Stepan Europe cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.