NIKING

# SAFETY DATA SHEET FP 3% UL

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

	ication of the substance / mixture and of the company /	
undertaking		
Date issued	10.12.2012	
Revision date	17.04.2018	
1.1. Product identifier		
Product name	FP 3% UL	
Article no.	V-FP3UL	
1.2. Relevant identifie	ed uses of the substance or mixture and uses advised against	
Use of the substance / preparation	Appliance protection.	
1.3. Details of the sup	oplier of the safety data sheet	
Downstream user		
Company name	Viking S.A.	
Postal address	Z.I. Haneboesch	
Postcode	L-4562	
City	Differdange/Niederkorn	
Country	Luxembourg	
Telephone number	+352 58 37 37 1	
Fax	+352 58 37 36	
Website	http://www.viking-emea.com	
1.4. Emergency telephone number		
Emergency telephone	Telephone number: +44 1273 289451 Description: NCEC CareChem24	
Identification, comments	Additional Emergency Phone Number in Section16	

# **SECTION 2: Hazards identification**

#### 2.1. Classification of substance or mixture

Classification according to	Eye Irrit. 2; H319
Regulation (EC) No 1272/	
2008 [CLP / GHS]	Skin Irrit. 2; H315

Aquatic Chronic 3; H412

# 2.2. Label elements

Hazard pictograms (CLP)		
Composition on the label	Zinc chloride 0,1 -0,9 %, 2-Methylpropan-1-ol 0,5 -0,9 %	
Signal word	Warning	
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.	
Precautionary statements	P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice / attention. P337+P313 If eye irritation persists: Get medical advice / attention.	

#### 2.3. Other hazards

PBT / vPvB

2.0 Mise

The product does not meet the criteria for PBT (persistent / bioaccumulative / toxic) or vPvB (very persistent / very bioaccumulative).

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

3.2. Mixtures			
Substance	Identification	Classification	Contents
Zinc chloride	CAS No.: 7646-85-7 EC No.: 231-592-0 Index No.: 030-003-00-2 REACH Reg. No.: 01-2119472431-44	Acute tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400; M- factor 1 Aquatic Chronic 1; H410; M-factor 1	0,1 -0,9 %
2-Methylpentane-2,4-diol	CAS No.: 107-41-5 EC No.: 203-489-0 Index No.: 603-053-00-3 REACH Reg. No.: 01-2119539582-35	Eye Irrit. 2; H319 Skin Irrit. 2; H315	1 -2,9 %
2-Methylpropan-1-ol	CAS No.: 78-83-1 EC No.: 201-148-0 Index No.: 603-108-00-1 REACH Reg. No.: 01-2119484609-23	Flam. Liq. 3; H226 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336	0,5 -0,9 %

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General	Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.	
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.	
Skin contact	Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly with soap and water for several minutes. Get medical attention if any discomfort continues.	
Eye contact	Immediately rinse with plenty of lukewarm water for at least 5 minutes. Remove any contact lenses and open eyelids widely. Contact physician if discomfort continues.	
Ingestion	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.	
Recommended personal protective equipment for first aid responders	No recommendation given.	

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

General symptoms and ef-	Irritating to skin. Causes eye irritation.
fects	

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

Medical treatment	Treat Symptomatically.
Medical monitoring for de- layed effects	No recommendation given.
Separate first aid equipment	No recommendation given.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media This product is not flammable.

5.2. Special hazards arising from the substance or mixture		
Fire and explosion hazards	None.	
Hazardous combustion products	In case of fire, carbon monoxide and carbon oxide might be released.	
5.3. Advice for firefighters		
Personal protective equip- ment	Wear respiratory protection.	
Fire fighting procedures	Follow the general fire precautions indicated by the workplace.	
SECTION & Accidental valance macaures		

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection mea-	Avoid contact with skin and eyes. Do not breathe vapour. For personal protection, see
sures	section 8.

#### 6.2. Environmental precautions

Environmental precautionary Prevent discharge of larger quantity to drain. Avoid discharge to the aquatic environment.

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

Clean up Absorb in vermiculite, dry sand or earth and place into containers. Collect spills to suitable waste containers. Further handling of waste – see section 13.

#### 6.4. Reference to other sections

Additional information See Sections 8 and 13 for information concerning protective equipment and waste treatment methods.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapours. Wash hands before breaks and before smoking, eating or drinking. Wash hands and contaminated areas with water and soap after finished work. Container must be kept tightly closed.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed. Protect against direct sunlight. Keep cool in a well-ventilated space.

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

Specific use(s) See EWC-code under Section 13.

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

#### 8.1. Control parameters

Substance	Identification	Value	TWA Year
Zinc chloride	CAS No.: 7646-85-7	<b>OEL short term value</b> Value: 2 mg/m <sup>3</sup>	
2-Methylpentane-2,4-diol	CAS No.: 107-41-5	TWA (8h) : 25 ppm TWA (8h) : 123 mg/m3 <b>OEL short term value</b> Value: 123 mg/m3	TWA Year: 2011
2-Methylpropan-1-ol	CAS No.: 78-83-1	TWA (8h) : 50 ppm TWA (8h) : 154 mg/m <sup>3</sup> <b>OEL short term value</b> Value: 75 ppm <b>OEL short term value</b> Value: 231 mg/m <sup>3</sup>	

#### 8.2. Exposure controls

#### Safety signs



# Appropriate engineering An eye wash bottle must be available at the work site. controls Suitable eye protection Wear approved chemical safety goggles where eye exposure is reasonably probable. Hand protection Skin- / hand protection, long Butyl rubber gloves are recommended. term contact Suitable protective clothing Use protective clothes in order to avoid skin contact. **Respiratory protection** Respiratory protection nec-In case of inadequate ventilation use suitable respirator. essary at Hygiene / environmental Specific hygiene measures

Specific hygiene measures No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

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

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

Physical state	Dark coloured liquid.
Colour	Dark brown.
Odour	Characteristic.
Odour limit	Comments: No information.
рН	Status: In delivery state Value: 6,0 – 7,0
Melting point / melting range	Comments: No information.
Freezing point	Value: ~ -15 °C
Boiling point / boiling range	Value: > 100 °C
Flash point	Value: > 100 °C
Evaporation rate	Comments: No information.
Flammability (solid, gas)	Not relevant.

Explosion limit	Comments: Product is not explosive.	
Vapour pressure	Comments: No information.	
Vapour density	Value: < 1	
Specific gravity	Value: 1.13 -1.17	
Solubility	Comments: Soluble in water.	
Partition coefficient: n-oc- tanol/water	Comments: No information.	
Spontaneous combustability	Comments: Not relevant.	
Decomposition temperature	Comments: No information.	
Viscosity	Value: < 12 cSt	
Explosive properties	Product is not explosive.	
Oxidising properties	Does not meet the criteria for oxidising.	
9.2. Other information		
SECTION 10: Stabi	lity and reactivity	
10.1. Reactivity		
Reactivity	Stable product under normal conditions of handling and storage.	
10.2. Chemical stabili	ty	
Stability	Stable product under normal conditions of handling and storage.	
10.3. Possibility of ha	zardous reactions	
Possibility of hazardous re- actions	Stable product under normal conditions of handling and storage.	
10.4. Conditions to av	oid	
Conditions to avoid	Not known under normal conditions of handling and storage.	
10.5. Incompatible ma	terials	
Materials to avoid	Alkali earth metals.	
10.6. Hazardous deco	mposition products	
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral	

	Value: > 2000 mg/kg Species: Rat
Substance	Zinc chloride
Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: = 350 mg/kg bw Animal test species: Rat Comments: Hazardous if ingested.
Substance	2-Methylpentane-2,4-diol
Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: = 3700 mg/kg bw Animal test species: Rat Comments: Non-acute toxic. Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: = 7920 mg/kg bw
	Animal test species: Rabbit Comments: Non-acute toxic.
Substance	2-Methylpropan-1-ol
Acute toxicity	Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: = 4 hour(s) Value: = 6,5 mg/l Animal test species: Rat Comments: Might be hazardous if inhaled.
	Type of toxicity: Acute Effect tested: LD50
	Route of exposure: Oral Value: = 2460 mg/kg bw
	Animal test species: Rat
	Comments: Non-acute toxic.
	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: = 2460 mg/kg bw Animal test species: Rabbit Comments: Non-acute toxic.
Other information regarding health hazards	

Inhalation	May cause mild irritation of respiratory system.
Skin contact	Irritating to skin.

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Eye contact	Causes serious eye irritation.
Ingestion	In case of ingestion of large quantities may cause nausea, vomiting, dizziness, confusion, loss of consciousness.
Sensitisation	No known chronic or acute health risks.
Mutagenicity	No known chronic or acute health risks.
Carcinogenicity, other infor- mation	No known chronic or acute health risks.
Reproductive toxicity	No known chronic or acute health risks.

## Symptoms of exposure

In case of ingestion	Ingestion of large quantities may cause cause nausea, vomiting, dizziness, confusion, loss of consciousness.
In case of skin contact	Irritating.
In case of inhalation	Slightly Irritating.
In case of eye contact	Irritation of eyes and mucous membrane.

# SECTION 12: Ecological information

## 12.1. Toxicity

Acute aquatic, fish	Value: > 1000 mg/l Test duration: 96 h Species: Leuciscus Idus
Substance	Zinc chloride
Acute aquatic, fish	Toxicity type: Acute Value: = 0,9 mg/l Effect dose concentration : LC50 Exposure time: = 96 hour(s) Species: Salmo salar Comments: Very toxic to aquatic life.
Substance	2-Methylpentane-2,4-diol
Acute aquatic, fish	Toxicity type: Acute Value: = 8510 mg/l Exposure time: 96 hour(s) Species: Gambusia affinis Comments: Not hazardous for environment.
Substance	2-Methylpropan-1-ol
Acute aquatic, algae	Toxicity type: Acute Value: = 290 mg/l Effect dose concentration : IC50 Exposure time: = 72 hour(s) Comments: Not hazardous for environment.
Substance	Zinc chloride
Acute aquatic, Daphnia	Toxicity type: Acute Value: = 0,329 mg/l

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	Effect dose concentration : EC50 Exposure time: = 48 hour(s) Species: D. magna Comments: Very toxic to aquatic life.
Substance	2-Methylpentane-2,4-diol
Acute aquatic, Daphnia	Toxicity type: Acute Value: = 2800 mg/l Exposure time: 48 hour(s) Species: Ceriodaphnia sp. Comments: Not hazardous for environment.
Substance	2-Methylpropan-1-ol
Acute aquatic, Daphnia	Toxicity type: Acute Value: = 1030 mg/l Effect dose concentration : EC50 Exposure time: = 48 hour(s) Species: D. magna Comments: Not hazardous for environment.
Ecotoxicity	Harmful to aquatic life with long lasting effects.
Aquatic, comments	On basis of test data.

# 12.2. Persistence and degradability

Biodegradability	Value: > 90 Method: OECD 301A Test period: 28 days
Substance	2-Methylpentane-2,4-diol
Biodegradability	Value: = 0,02 Method: BOD5/COD
Substance	2-Methylpropan-1-ol
Biodegradability	Value: = 99 % Method: OECD 301A degradation in 14 days Comments: Readily biodegradable.
Persistence and degradabili- ty, comments	The product is expected to be biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation: Is not expected to be bioaccumulable.
Substance	Zinc chloride
Bioconcentration factor (BCF)	Value: = 2000 Comments: Risk of bioaccumulation.
Substance	2-Methylpentane-2,4-diol
Bioconcentration factor (BCF)	Value: < 10 Comments: No bioaccumulation expected.

# 12.4. Mobility in soil

#### Mobility

The product contains substances, which are water soluble and may spread in water systems.

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

PBT assessment results Not Classified as PBT/vPvB by current EU criteria.

#### 12.6. Other adverse effects

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Dispose of waste and residues in accordance with local authority requirements.
EWC waste code	EWC waste code: 160305 organic wastes containing dangerous substances Classified as hazardous waste: Yes
EU Regulations	Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives. Annex III to Directive 2008/98/EC.

### **SECTION 14: Transport information**

Dangerous goods

No

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

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

Transport in bulk (yes/no)

#### **SECTION 15: Regulatory information**

No

# 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture EEC-directive Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. Commission Directive 2012/45/EU adapting for the second time the Annexes to Directive 2008/68/EC of the European Parliament and of the Council on the inland transport of dangerous goods to scientific and technical progress. Legislation and regulations Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances

and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### **15.2.** Chemical safety assessment

# Chemical safety assessment Yes performed

# **SECTION 16: Other information**

List of relevant H-phrases (Section 2 and 3)	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H318 Causes Serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>
Classification according to Regulation (EC) No 1272/ 2008 [CLP / GHS]	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 3; H412
Additional information	Emergency Phone No *Europe (English, Dutch, French, German, Italian, Spanish) +44 1273 289451 France (English, French) +33 1 72 11 00 03 Germany (English, French) +33 1 72 11 00 03 Germany (English, German) +49 69 222 25285 Spain (English, Spanish) +34 91 114 2520 Italy (English, Spanish) +39 02 3604 2884 Netherlands (English, Dutch) +31 10 713 8195 *Middle East (English, Arabic) +44 1273 289454 United States (English, French, Spanish) +1 866 928 0789 Canada (English, French) +1 800 579 7421 United States and Canada (English) +1 202 464 2554 Mexico (English, Spanish) +52 55 5004 8763 Brazil (Portuguese, Spanish, English) +55 11 3197 5891 Chile (English, Spanish) +56 2 2582 9336 Colombia (English, Spanish) +54 11 5984 3690 *East/South East Asia (English, Bahasa Malaysia, Hindi, Japanese, Korean, Mandarin, Tagalog) +65 3158 1412 China (English, Mandarin) +86 512 8090 3042 China (Mainland) (English, Mandarin) **+86 532 8388 9090 Japan (English, Japanese) +81 3 4578 9341 Malaysia (English, Malaysian) +60 3 6207 4347 India (English, Malaysian) +60 3 2231 2149 South Korea (English, Korean) +82 2 3479 8401 Australia (English) +61 2 8014 4558

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Last update date	20.01.2018
Version	7