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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)

SECTION 1: Identification 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 identified uses of the substance or mixture and uses advised against

Use of the substance / preparation

Appliance protection.

1.3. Details of the supplier 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

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2.1. Classification of substance or mixture

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

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

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 %

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SECTION 4: 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.

General symptoms and ef-

fects

Irritating to skin. Causes eye irritation.

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

Medical treatment Treat Symptomatically.

Medical monitoring for de-

layed effects

Separate first aid equipment

No recommendation given.

No recommendation given.

SECTION 5: Firefighting measures

Suitable extinguishing media This product is not flammable.

Fire and explosion hazards

None.

Hazardous combustion

products

In case of fire, carbon monoxide and carbon oxide might be released.

Personal protective equip-

ment

Wear respiratory protection.

Fire fighting procedures

Follow the general fire precautions indicated by the workplace.

SECTION 6: Accidental release measures

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Personal protection measures

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

measures

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.

Additional information

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

SECTION 7: Handling and storage

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.

Storage

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

Specific use(s)

See EWC-code under Section 13.

SECTION 8: Exposure controls / personal protection

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

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Safety signs







Precautionary measures to prevent exposure

Appropriate engineering controls

An eye wash bottle must be available at the work site.

Eye / face protection

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

Skin protection

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

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.

pH 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.

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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: Stability and reactivity

10.1. Reactivity

Reactivity Stable product under normal conditions of handling and storage.

10.2. Chemical stability

Stability Stable product under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Stable product under normal conditions of handling and storage.

10.4. Conditions to avoid

Conditions to avoid Not known under normal conditions of handling and storage.

10.5. Incompatible materials

Materials to avoid Alkali earth metals.

10.6. Hazardous decomposition 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

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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.

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.

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 potentia

Bioaccumulative potential Bioaccumulation: Is not expected to be bioaccumulable.

Substance Zinc chloride

Bioconcentration factor Value: = 2000

(BCF) Comments: Risk of bioaccumulation.

Substance 2-Methylpentane-2,4-diol

Bioconcentration factor Value: < 10

(BCF) Comments: No bioaccumulation expected.

12.4. Mobility in soil

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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 EWC waste code Dispose of waste and residues in accordance with local authority requirements.

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)

No

SECTION 15: Regulatory information

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

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> 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).

Chemical safety assessment Yes performed

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes Serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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, German) +49 69 222 25285

Spain (English, Spanish) +34 91 114 2520

Italy (English, Italian) +39 02 3604 2884

Netherlands (English, Dutch) +31 10 713 8195

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United States (English, French, Spanish) +1 866 928 0789

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