SAFETY DATA SHEET

Viking USP

SECTION 1: Identification

1.1. Product identifier

Trade name

Viking USP

Product no.

V-SFFFUSP/XX F21720-XX

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

Relevant identified uses of the substance or mixture

Appliance protection

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

The Viking Corporation
210 N Industrial Park Drive
MI 49058 Hastings
United States of America
+1 269 945 9501
+1 269 818 1680

Contact person

CHR

E-mail

techsvcs@vikingcorp.com

SDS date

1/9/2023

SDS Version

1.0

1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case
See also section 4 “First aid measures”.

SECTION 2: Hazard(s) identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

Hazard pictogram(s)

Signal word

Warning

Hazard statement(s)

Causes serious eye irritation. (H319)

Safety statement(s)

General

-

Prevention

Wear eye protection/protective gloves/protective clothing. (P280)

Response

If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage

-

Disposal

-

Additional labelling

Not applicable.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	CAS No.: 112-34-5	5-10%	Eye Irrit. 2, H319	
Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine	CAS No.: 90583-18-9	5-10%	Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 20.00 %)	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS No.: 68891-38-3	1-3%	Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 10.00 %) Eye Irrit. 2, H319 (SCL: 5.00 %)	
Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides	CAS No.: 308062-28-4	<1%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

None known.

SECTION 4: First-aid measures

4.1. Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person’s condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO_x)

Carbon oxides (CO / CO2)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated (< 55 °C)

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sucrose
Long term exposure limit (OSHA Table Z-1) (mg/m³): 15 (total dust) / 5 (Respirable fraction)
Long term exposure limit (ACGIH TLV) (mg/m³): 10 (total dust)
Long term exposure limit (NIOSH REL) (mg/m³): 10 (Total dust), 5 (Respirable fraction)

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment

No specific requirements

Skin protection

Work situation	Recommended	Type/Category	Standards	
	Dedicated work clothing should be worn.	-	-	

Hand protection

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
	Vinyl/PVC	0.6	-	-	

Eye protection

Work situation	Type	Standards	
	Wear safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Pale yellow

Odour
Characteristic

Odour threshold (ppm)
Testing not relevant or not possible due to the nature of the product.

pH
6.9-7,9

Density (g/cm³)
~ 1.03

Viscosity
~1500 mPa.s (20 °C)

Phase changes

Melting point (°F)
-

Melting point (°C)
~ 0

Boiling point (°F)
Testing not relevant or not possible due to the nature of the product.

Vapour pressure
Testing not relevant or not possible due to the nature of the product.

Vapour density
Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°F)
Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°F)
Testing not relevant or not possible due to the nature of the product.

Ignition (°F)
Testing not relevant or not possible due to the nature of the product.

Auto flammability (°F)
Testing not relevant or not possible due to the nature of the product.

Explosion limits (% v/v)
Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Mouse
Route of exposure	Oral
Test	LD50
Result	2410.00 mg/kg
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	29.00 ppm
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Rabbit
Route of exposure	Dermal

Test	LD50
Result	2764.00 mg/kg
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5660.00 mg/kg
Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	2000.00 mg/kg
Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	4100 mg/kg
Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Species	Rat
Route of exposure	
Test	
Result	>225 mg/kg
Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Species	Mouse
Route of exposure	Dermal

Test	
Result	68 mg/kg
Other information	

Skin corrosion/irritation

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

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1300.00 mg/L
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Daphnia
Compartment	

Duration	48 hours
Test	EC50
Result	100.00 mg/L
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	EC50
Result	100.00 mg/L
Other information	
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Test method	
Species	Fish
Compartment	
Duration	No data available.
Test	LC50
Result	10.00 mg/L
Other information	
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Test method	
Species	Algae
Compartment	
Duration	No data available.
Test	EC50
Result	100.00 mg/L
Other information	
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Test method	
Species	Daphnia
Compartment	
Duration	No data available.
Test	EC50
Result	100.00 mg/L

Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	7.1 mg/L
Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	7.5 mg/L
Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	7.2 mg/L
Other information	
Product/substance	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1.26 mg/L
Other information	
Product/substance	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides
Test method	

Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	2.90 mg/L
Other information	
Product/substance	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	0.19 mg/L
Other information	
Product/substance	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides
Test method	
Species	Algae
Compartment	
Duration	28 days
Test	NOEC
Result	0.07 mg/L
Other information	

12.2. Persistence and degradability

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Biodegradable	Yes
Test method	OECD 301 C
Result	80 %
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Biodegradable	Yes
Test method	
Result	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Biodegradable	Yes
Test method	OECD 301 B
Result	100 %

Product/substance	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides
Biodegradable	Yes
Test method	
Result	80 %

12.3. Bioaccumulative potential

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	No data available.
Other information	
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	No data available.
Other information	
Product/substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	No data available.
Other information	
Product/substance	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides
Test method	
Potential bioaccumulation	No
LogPow	2.7
BCF	No data available.
Other information	

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to DOT, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: Regulatory information

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

15.2. U.S. Federal regulations

TSCA

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether is listed in the non-confidential portion

Sucrose is listed in the non-confidential portion

Alcohols, C12-14, ethoxylated, sulfates, sodium salts is listed in the non-confidential portion

Clean Air Act

None of the components are listed

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

None of the components are listed

CERCLA

None of the components are listed

State regulations

California / Prop. 65

None of the components are listed

Massachusetts / Right To Know Act

Sucrose is listed

New Jersey / Right To Know Act

None of the components are listed

New York / Right To Know Act

None of the components are listed

Pennsylvania / Right To Know Act

Sucrose is listed

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15.4. Restrictions for application

Restricted to professional users.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

Yes

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The safety data sheet is validated by

Charlotta Reimertz

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: US-en