1. Identification of the substance/preparation and of the company/undertaking

Product name: MS TOPFOAM LC ACID

Identification of the Company:

Schippers Europe BV
Postbus 122
5530 AC Bladel
Nederland
Tel: +31 (0) 497- 38 20 17
Fax: +31 (0) 497- 33 97 77
contact.nl@schippers.eu

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion , Category 1A	H314

Classification (67/548/EEC, 1999/45/EC)

C; CORROSIVE	R35

The classification of this product is based only on its extreme pH value (in accordance with current European legislation).

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H314 — Causes severe skin burns and eye damage.

Precautionary Statements :

Prevention:

P280 — Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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

P305 + P351 + P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310	Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:
nitric acid

2.3 Other hazards

None known.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24	C; R34	Skin corrosionCategory 1B; H314	>= 25 - < 30
nitric acid	7697-37-2 231-714-2 01-2119487297-23	C-O; R35-R08	Oxidizing liquidsCategory 3; H272 Skin corrosionCategory 1A; H314	>= 5 - < 10
fatty alcohol alkoxylate, Polymer		R38	Skin corrosion/irritationCategory 2; H315	>= 2.5 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

Treatment	: Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting.	: Oxidizer. Contact with other material may cause fire.
Hazardous combustion products	: Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	: Use personal protective equipment
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Environmental precautions	: Do not allow contact with soil, surface or ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

See Section 1 for emergency contact information.
For personal protection see section 8.
See Section 13 for additional waste treatment information.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	: Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Warning! Do not use together with other products. May release dangerous gases (chlorine).
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Keep in a cool, well-ventilated place. Keep away from reducing agents. Keep away from strong bases. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
Storage temperature	: -15 °C to 30 °C

7.3 Specific end uses

Specific use(s)	: Animal housing care. Semi-Automatic process Animal care. Manual process

8. Exposure controls/Personal protection

8.1 Control parameters

Occupational Exposure Limits

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Update	Basis
7664-38-2	Phosphoric acid	TWA	1 mg/m3	2005-04-06	UKCOSSTD

		STEL	2 mg/m3	2005-04-06	UKCOSSTD
7697-37-2	nitric acid	STEL	1 ppm 2.6 mg/m3	2007-08-01	UKCOSSTD

8.2 Exposure controls

Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles Face-shield

Hand protection (EN 374) : Wear the following personal protective equipment: Nitrile rubber butyl-rubber Impervious gloves Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection (EN 14605) : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection (EN 143, 14387) : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: Colourless
Odour	: odourless
pH	: 0.5, 100 %
Flash point	: Not applicable.
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available

Relative vapour density	: no data available
Relative density	: 1.22 - 1.23
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: Yes

9.2 Other information

no data available

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Warning! Do not use together with other products. May release dangerous gases (chlorine).

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Metals Bases Organic materials

10.6 Hazardous decomposition products

Carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact
Toxicity Acute oral toxicity	: There is no data available for this product.
Acute inhalation toxicity	: There is no data available for this product.
Acute dermal toxicity	: There is no data available for this product.

Skin corrosion/irritation	: There is no data available for this product.
Serious eye damage/eye irritation	: There is no data available for this product.
Respiratory or skin sensitization	: There is no data available for this product.
Carcinogenicity	: There is no data available for this product.
Reproductive effects	: There is no data available for this product.
Germ cell mutagenicity	: There is no data available for this product.
Teratogenicity	: There is no data available for this product.
STOT - single exposure	: There is no data available for this product.
STOT - repeated exposure	: There is no data available for this product.
Aspiration toxicity	: There is no data available for this product.

Components

Acute oral toxicity	: Phosphoric acid LD50 rat: > 2,000 mg/kg
Acute inhalation toxicity	: Phosphoric acid 4 h rat: 0.962 mg/l
Acute dermal toxicity	: Phosphoric acid LD50 rabbit: > 2,000 mg/kg

Potential Health Effects

Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Causes digestive tract burns.
Inhalation	: May cause nose, throat, and lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	: Redness, Pain, Corrosion
Skin contact	: Redness, Pain, Corrosion
Ingestion	: Corrosion, Abdominal pain
Inhalation	: Respiratory irritation, Cough

12. Ecological information

12.1 Ecotoxicity

Environmental Effects	: This product has no known ecotoxicological effects.

Product

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates.	: no data available
Toxicity to algae	: no data available

Components

Toxicity to fish	: Phosphoric acid 96 h LC50: 75.1 mg/l nitric acid 96 h LC50: 72 mg/l

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

13. Disposal considerations

Dispose of in accordance with the European Directives on waste and hazardous waste.Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product	: The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
European Waste Catalogue	: 200114* - acids

14. Transport information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number	: 3264
14.2 UN proper shipping name	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Nitric acid)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: III
14.5 Environmental hazards	: No
14.6 Special precautions for user	:None

Air transport (IATA)

14.1 UN number	: 3264
14.2 UN proper shipping name	: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, Nitric acid)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: III
14.5 Environmental hazards	: No
14.6 Special precautions for user	: None

Sea Transport (IMDG/IMO)

14.1 UN number	: 3264
14.2 UN proper shipping name	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Nitric acid)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: III
14.5 Environmental hazards	: No
14.6 Special precautions for user	: None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable.

15. Regulatory information

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

according to Detergents Regulation EC 648/2004	: less than 5 %: Non-ionic surfactants

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations	: The Chemicals (Hazard Information and Packaging for Supply) Regulations. The Control of Substances Hazardous to Health Regulations. Health and Safety at Work Act.

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

16. Other information

Full text of R-Phrases

R08	Contact with combustible material may cause fire.
R34	Causes burns.
R35	Causes severe burns.
R38	Irritating to skin.

Full text of H-Statements

H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

Full text of other abbreviations

Prepared by	: Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DPD+ Substances:

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Ingestion	Phosphoric acid	7664-38-2	231-633-2
Inhalation	Phosphoric acid	7664-38-2	231-633-2
Dermal	Phosphoric acid	7664-38-2	231-633-2
Eyes	Phosphoric acid	7664-38-2	231-633-2
aquatic environment	No lead substance		

Physical properties DPD+ Substances:

Substance	Vapour pressure	Water solubility	POW	Molar Mass
Phosphoric acid	0.04 hPa	> 850 g/l		98 g/mol

To calculate if your downstream Operating Conditions and Risk management Measures are safe

Short title of Exposure Scenario : Animal housing care. Semi-Automatic process

Use descriptors

Main User Groups : Industrial uses: Uses of substances as such or in preparations at industrial sites

Sectors of end-use : SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : PROC7: Industrial spraying
PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Product categories : PC35: Washing and cleaning products (including solvent based products)

Environmental Release Categories : ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Short title of Exposure Scenario : Animal care. Manual process

Use descriptors

Main User Groups : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Sectors of end-use	: SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	: PROC10: Roller application or brushing PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
Product categories	: PC35: Washing and cleaning products (including solvent based products)
Environmental Release Categories	: ERC8a: Wide dispersive indoor use of processing aids in open systems