Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Versie 6.0.0
DATUM VAN HERZIENING: 25/10/17
Afgiftedatum : 25/10/17

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

1.1. Product identifier

Trade name: CAVALOR DRY FEET

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

Use of the product LIQUID ACID - CARE OF EQUINE HOOFS

1.3. Details of the supplier of the safety data sheet

Company identification Nutriquine N.V. -Industriepark 11b B 9031 Drongen – Belgium+32(0)9 242 82 20

For information regarding this safety data sheet, please contact: care@cavalor.com

1.4. Emergency telephone number

Emergency phone number Emergency direct number (24 hours a day, 7 days a week) :
(+) 1-760-476-3960 (Asian area, Pacific area)
(+) 1-760-476-3961 (European area)
(+) 1-760-476-3962 (Americas area)
(+) 1-760-476-3959 (Middle eastern countries and African area)
Access code: 333021

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

Acute toxicity - Category 4 (per oral route)	H302: Harmful if swallowed.
Skin irritation - Category 2	H315: Causes skin irritation.
Skin sensitiser - Category 1	H317: May cause an allergic skin reaction.
Serious eyes damages - Category 1	H318: Causes serious eye damage.
Respiratory sensitiser - Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicant - single exposure - Category 3	H335: May cause respiratory irritation.
Acute toxicity to the aquatic environment - Category 1	H400: Very toxic to aquatic life.
Chronic toxicity to the aquatic environment - Category 2	H411: Toxic to aquatic life with long lasting effects.
Acute toxicity - Category 4 (inhalation)	H332: Harmful if inhaled.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s):

Signal word: Danger

Hazard statement(s):

H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P102: Keep out of reach of children.
P260: Do not breathe vapors/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P285: In case of inadequate ventilation wear respiratory protection.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362 + P364: Take off contaminated clothing and wash before reuse.
P391: Collect spillage.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

Chemical nature of the mixture : LIQUID ACID

Substance(s)	CAS number(s)	EINECS number(s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
5% <= Aluminium sulphate 14H20 < 15%	16828-12-9	233-135-0	01-2119531538-36	Eye Dam. 1 H318	(1)
5% <= Zinc sulphate 6H2O < 15%	13986-24-8	231-793-3	01-2119474684-27	Acute Tox. 4 (oral) H302 Eye Dam. 1 H318 Aquatic Chronic 1 H410 Aquatic Acute 1 H400 M Factor (Acute) 1 M Factor (Chronic) 1	(1)
5% <= Copper sulphate 5H20 < 15%	7758-99-8	231-847-6	01-2119520566-40	Acute Tox. 4 (oral) H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M Factor (Acute) 10 M Factor (Chronic) 1	(1)

Type

(1) : Substance classified as hazardous for health and/or the environment

SECTION 4: First aid measures

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

Skin contact : Causes skin irritation.
May cause an allergic skin reaction.

Eye contact : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Inhalation : Harmful if inhaled.
May cause respiratory irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Pulverized water.
Foam, powder, carbon dioxide.

5.2. Special hazards arising from the substance or mixture

CAVALOR DRY FEET is non-flammable. However, combustion can produce carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Keep containers cool by spraying with water if exposed to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel:

Evacuate non-essential staff and those not equipped with individual protection apparatus.

6.1.2. For emergency responders:

Evacuate the personnel to a safe location.
Keep people upwind and away from the location of the flow/leak.
Use personal protection equipment.

6.2. Environmental precautions

Intervention limited to trained staff.
Do not discharge the product directly to sewer or to environment.
Take as soon as possible all incompatible materials away.

6.3. Methods and material for containment and cleaning up

Small spillage : Pump in a reservoir of help.

Large spillage :
Mark out, soak up with an inert absorbent and pump in an emergency tank.
Never return spills in original containers for re-use.
Keep in suitable, properly labelled and closed containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe vapor/spray.
Avoid contact with skin, eyes and clothing.
Do not eat, drink or smoke in work area. Avoid projections during use.
Do not mix with strong bases or strong acids.
Do not mix with strong oxidizing agents.
Operate in a well ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage:

Do not store below the point of freezing. Keep only in the original container.
Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.
Keep away from incompatible matters. Keep container closed.

7.2.2. Packaging or wrapping materials:

High density polyethylene recommended

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values : Aluminium sulphate 14H2O (100%) VME: 0.2 mg/m³ Cupric Sulphate (100%): VME 1 mg/m³

Components with on the work floor to control parameters: none

Personal protective equipment for exposure controls (occupational exposure controls):

Breathing protection: Avoid breathing directly over the product.

Ventilation: Natural

Hand protection: Gloves are recommended

Skin: Avoid gross spillages directly on the skin

Eye protection: Protective glasses are recommended when handling large amounts.

Environmental exposure controls: production in accordance with the regulations.

8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.
* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.
* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.
* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

8.2.1. Appropriate engineering controls :

Ensure adequate ventilation. Apply the necessary technical measures to comply with the professional exposure limit values.

8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.

Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of prefered materials for insulating gloves:

Butyl rubber. Nitril.

Skin protection :

Wear boots and a protective cloth with chemical resistance.

Respiratory protection :

None under normal conditions of use.

Thermal hazards :

Not applicable

Health measures :

Safety shower and eye wash fountain near to workplace.

After using, wash systematically all personal protective equipment.

8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	blue to green
Odour	Aldehyde
Pure pH	2.9±0.6
pH value at 10g/l	4±0.3
Freezing point :	0 °C
Mass density	1.235±0.01 g/cm³
Relative density	1.235±0.01
Solubility in water	Soluble in water in all proportions

SECTION 10: Stability and reactivity

10.1. Possibility of hazardous reactions

Avoid contact with strong oxidizing agents, strong bases and strong acids.

10.2. Conditions to avoid

Storage below the freezing point.

Light, heat.

10.3. Incompatible materials

Strong bases, strong acids
and strong oxidizing agents

10.4. Hazardous decomposition products

The thermal decomposition products can include carbon monoxide and carbon dioxide.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Most important symptoms and effects, both acute and delayed :

Skin contact: causes skin irritation. May cause an allergic skin reaction.

Eye contact: causes serious eye damage.

Ingestion: harmful if swallowed.

Inhalation: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or Breathing difficulties if inhaled.

SECTION 12: Ecological information

12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

Substance-related data:

Acute toxicity

Copper sulphate 5H20 : EC 50 - 48h shellfishes 0.024 mg/L. - Result given for the anhydrous form - MSDS supplier
Copper sulphate 5H20 : LC 50 - 48h fishes (Bluegill) 0.6 mg/L. - Result given for the anhydrous form - MSDS supplier
Copper sulphate 5H20 : LC 50 - 96h fishes (Truite arc en ciel) 0.1 mg/L. - Result given for the anhydrous form - MSDS supplier Zinc sulphate 6H2O : EC 50 - 48h daphnia (Ceriodaphnia dubia) < pH7 - 1.7 mg/L. - Expressed in Zn - MSDS supplier
Copper sulphate 5H20 : LC 50 - 96h goldfish 0.1 mg/L. - Result given for the anhydrous form - MSDS supplier
Zinc sulphate 6H2O : EC 50 - 72h algae (Selenastrum capricornutum) > pH7 - 0.56 mg/L. - Expressed in Zn - MSDS supplier

CHRONIC TOXICITY

Zinc sulphate 6H2O : NOEC algae 0.04 mg/L. - MSDS supplier

Degradability

Zinc sulphate 6H2O : Biodegradability . Difficult to biodegrade - MSDS supplier

Bioaccumulation

Zinc sulphate 6H2O : . unlikely - MSDS supplier

Conclusion :

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Treatment ofthemixture:

Do not discharge the product directly to sewer or to environment.
Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

Packaging treatment:

Rinse thoroughly the packaging with water and treat the effluent like wastes.
Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

SECTION 14: Transport information

ROAD TRANSPORT:
Rail/Route (RID/ADR)
UN no : 1760
UN proper shipping name : CORROSIVE LIQUID, N.O.S. (Copper sulphate 5H20+Zinc sulphate 6H2O+Aluminiumsulphate 14H20)
Class : 8
Packing group : III
Hazard code : 80
Label : 8

Tunnel code : E - Environmental hazard : Yes (Copper sulphate 5H20 + Zinc sulphate 6H2O)

MARITIMETRANSPORT:
IMDG
UN no :1760
UN proper shipping name : CORROSIVE LIQUID, N.O.S.(Copper sulphate 5H20+Zinc sulphate 6H2O+Aluminium sulphate 14H20)
Class : 8
Packing group : III

Marine pollutant : Yes (Copper sulphate 5H20 + Zinc sulphate 6H2O)
EmS number : F-A, S-B

SECTION 15: Regulatory information

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

Regulations relating to the hazards from major accidents :

SEVESO 3 Directive (2012/18/EC) : E1

Regulations relating to the classification, packing and labelling of substances and mixes : Regulation 1272/2008/EC amended.

Waste regulations :

2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC Decision 2014/955/EC which establishes the list of hazardous waste.

Protection of workers :

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation 850/2004/EC on persistent organic pollutants and modifying Directive 79/117/EC : Not applicable Regulation

1005/2009/EC amended on substances that deplete the ozone layer : Not applicable

Regulation (EC) 648/2004 : Not concerned

Comply with national and local legislation.