FARMALIN MAINTENANCE

Code: 009N0

Safety Data Sheet compliant with Regulation (EU) 2020/878

Version 7.0.0
Creation date : 2024-11-18
Revision: 2024-11-18
Print Date : 2024-11-18

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name FARMALIN MAINTENANCE

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

Use of the product

ACID LIQUID
An innovative, aldehyde free liquid concentrate for the support of hooves in cattle and sheep.

1.3. Details of the supplier of the safety data sheet

Company identification

Kilco (International) Ltd
1A Trench Road
Mallusk, Newtownabbey
Belfast BT36 4TY Northerm IRELAND
+44 (0) 1576 205480

For information regarding this safety data sheet, please contact :
regulatory@kersia-group.com

1.4. Emergency telephone number

Emergency phone number

Emergency direct number (24 hours a day, 7 days a week) : +44 1273 289451

CARECHEM 24 Great Britain
Tel. +44 1865 407333

NHS : 111

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.

	EUH 208: Contains Clove, ext.. May produce an allergic reaction.
Skin corrosion - Category 1C	H314: Causes severe skin burns and eye damage.
Serious damage to eyes - Category 1	H318: Causes serious eye damage.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :

Signal word :
Danger

Contains : L-(+)-lactic acid+ 2-(2-Butoxyethoxy) ethanol

Hazard statement(s) :
H314: Causes severe skin burns and eye damage.
EUH 208: Contains Clove, ext.. May produce an allergic reaction.

Precautionary statement(s) :
P260: Do not breathe vapours/spray.
P264: Wash affected area thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection.
P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

The mixture does not contain substance of "Very high Concern" (SVHC) in the candidate list of substances for Autorisation published and updated regularly by ECHA in concentration greater than 0.1%.
The mixture does not contains any substance responding to criteria for classification as PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2006.

The mixture does not contain substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. in concentration greater than 0.1%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable as this involves a mixture.

3.2. Mixtures

Chemical nature of the mixture : ACID LIQUID

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
5% < L-(+)-lactic acid < 15%	79-33-4	201-196-2	607-743-00-5		Eye Dam. 1 H318 Skin Corr. 1C H314 EUH 071		(1)
1% < 2-(2-Butoxyethoxy) ethanol < 5%	112-34-5	203-961-6	603-096-00-8		Eye Irrit. 2 H319		(1) (2)
0.1% <= Clove, ext. < 1%	84961-50-2	284-638-7			Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319		(1)
0.1% <= Salicylic acid < 0.3%	69-72-7	200-712-3	607-732-00-5		Acute Tox. 4 (oral) H302 Eye Dam. 1 H318 Repr. 2 H361		(1)

Type
(1) : Substance classified as hazardous for health and/or the environment
(2) : Substance with an exposure limit at the work station.
Substance of very high concern candidate for the authorisation procedure:
(3) : Substance considered as PBT (persistent, bioaccumulable, toxic)
(4) : Substance considered as vPvB (very persistent, very bioaccumulable)
(5) : Substance considered as carcinogenic category 1A
(6) : Substance considered as carcinogenic category 1B
(7) : Substance considered as mutagenic category 1A
(8) : Substance considered as mutagenic category 1B
(9) : Substance considered as reprotoxic category 1A
(10) : Substance considered as reprotoxic category 1B
(11) : Substance considered as endocrine disrupter
(12) : Other substance considered hazardous to health or the environment
(N) : Nanomaterial

Full text of H- and EUH- phrases : see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General indications:
Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

In the event of inhalation :
To transport the person to the air, to maintain it with the heat and rest.
Put into practice respiratory help procedure if needed and get medical advice immediately.

In the event of contact with the skin :
Take off immediately all contaminated clothing.
Wash immediately with plenty of water for 15 minutes at least.
Immediately call a POISON CENTER or doctor/physician.

In the event of contact with the eyes :
Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.
Remove contact lenses if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :
Rinse mouth.
Do NOT induce vomiting.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

Skin contact : May produce an allergic reaction.
Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.
Risk of perforating digestive tracts.

Inhalation : Inhaling vapours or aerosols can irritate respiratory tracts, including irritation of the nose and throat, a cough and difficulty breathing.

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

Treatments : Symptomatic treatment

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media :
Adapt the extinction agent to the environment
Agents compatible with other products involved into fire.

Unsuitable extinguishing media :
None from our knowledge.

5.2. Special hazards arising from the substance or mixture

Warming or fire can generate toxic gases

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 :

Wear suitable protective clothing.
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.
Take as soon as possible all incompatible materials away.
Do not discharge the product directly to sewer or to environment.
Informing the authorities if the product penetrates in the sewers or in the waters of the public domain.

6.3. Methods and material for containment and cleaning up

Small spillage :
Absorb with an inert, non-combustible absorbent material, such as sand, earth, vermiculite or diatomaceous earth.

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

6.4. Reference to other sections

Respect protective measures presented at heading 8.
Refer to section 13 for the elimination.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not eat, drink or smoke in work area. Avoid projections during use.
Do not breathe mist/vapours/spray.
Wear suitable protective clothing.
Avoid contact with skin, eyes and clothing.
Operate in a well ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage :

Keep container closed.
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 (see heading 10).

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

No other recommendation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values :

Substance	CAS number	Country	Type	Value	Unit	Comments	source
2-(2-Butoxyethoxy) ethanol	112-34-5	GBR	OEL 8h	10	ppm		International limit values for chemical agents
				67,5	mg/m³		International limit values for chemical agents
			OEL Short term	15	ppm		International limit values for chemical agents
				101,2	mg/m³		International limit values for chemical agents

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 ISO 16321-1 standard.

Hand protection :

Use chemical resistant gloves approved to EN 374.
Do not wear polyvinyl alcohol (PVA) gloves.
Permeation time >= 480 min
Examples of prefered materials for insulating gloves:
Thickness: > 0.5 mm
Butyl rubber.
Rubber chloroprene (CR).
PVC
Thickness: > 0.3 mm
Nitrile rubber.

Skin protection :

Wear protective clothing conforms to the standards EN 13034 - type 6

Respiratory protection :

When the values limit exposure and/or the values of comfort are likely to be exceeded, to use an apparatus of respiratory protection adequate purifying the air.

Thermal hazards :

Not applicable

Health measures :

Safety shower and eye wash fountain near to workplace.
Make sure the work area has good ventilation/suction.
After using, wash systematically all personal protective equipment.
Handle in accordance with good industrial hygiene practices and the safety instructions.

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	Colourless
Odour	Not available
Odour threshold	Not available
Freezing point	Not available
Melting point	Not applicable
Boiling point	Not available
Flammability	Not available
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH value at 10g/l	Not available
Pure pH	2±0.5
kinematic viscosity	Not available
Solubility	Miscible with water
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Relative density	Not available
Mass density	1.05±0.02 g/cm³
Vapour density	Not available
Particle characteristics	Not applicable

9.2. Other information

	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable
Evaporation rate:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal conditions of use.

10.2. Chemical stability

Stable in the recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Stable in the recommended storage and handling conditions.

10.4. Conditions to avoid

Excessive heat (>50°C)

10.5. Incompatible materials

Strong acids.
Strong basis

10.6. Hazardous decomposition products

In case of fire, risk of formation of toxic fumes.

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 hazard classes as defined in Regulation (EC) N°1272/2008

Substance-related data:

Acute toxicity
L-(+)-lactic acid : LC 50 - inhalation - 4h rat 7.94 mg/L. - MSDS supplier
2-(2-Butoxyethoxy) ethanol : LD 50 - oral rat 2,410 mg/kg. - MSDS supplier
Salicylic acid : LD 50 - oral rat 891 mg/kg. - MSDS supplier
L-(+)-lactic acid : LD 50 - dermal rabbit > 2,000 mg/kg. - MSDS supplier
2-(2-Butoxyethoxy) ethanol : LD 50 - dermal rabbit 2,764 mg/kg. - MSDS supplier
L-(+)-lactic acid : LD 50 - oral guinea-pig 1,810 mg/kg. - MSDS supplier

Skin corrosion/irritation
Salicylic acid (99%) : Skin irritation . non irritating - MSDS supplier

Serious damage to eyes/eye irritation
2-(2-Butoxyethoxy) ethanol : Eye irritation . Causes serious eye irritation. - MSDS supplier
Salicylic acid (99%) : Eye irritation . Risk of serious damage of eyes; Very irritating. - MSDS supplier

Sensitisation
Salicylic acid (99%) : Sensitisation . Not sensitising - MSDS supplier

Respiratory / skin sensitisation
2-(2-Butoxyethoxy) ethanol : Skin sensitisation guinea-pig . Not sensitising - MSDS supplier

Mutagenicity
Salicylic acid (99%) : . Not mutagenic - MSDS supplier

Mix-related data: :

Acute toxicity
. Not determined for the mixture.

Skin corrosion/irritation
Skin corrosivity . The mix is considered to be corrosive for the skin under the criteria of Regulation 1272/2008/EC.

Serious damage to eyes/eye irritation
Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

Respiratory / skin sensitisation
Skin sensitisation . May cause an allergic skin reaction.
Respiratory sensitisation . The mixture is not considered as a respiratory sensitiser according to 1272/2008/EC Regulation.

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.

Specific target organ toxicity - single exposure
. based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure
. based on available data, the classification criteria are not met.

Aspiration hazard
. based on available data, the classification criteria are not met.

Most important symptoms and effects, both acute and delayed :

Skin contact : May produce an allergic reaction.
Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.
Risk of perforating digestive tracts.

Inhalation : Inhaling vapours or aerosols can irritate respiratory tracts, including irritation of the nose and throat, a cough and difficulty breathing.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties
Not concerned

SECTION 12: ECOLOGICAL INFORMATION

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

Substance-related data:

Acute toxicity
L-(+)-lactic acid : LC 50 - 96h fishes (Lepomis macrochirus) 130 mg/L. - MSDS supplier
2-(2-Butoxyethoxy) ethanol : LC 50 - 96h fishes (Lepomis macrochirus) 1,300 mg/L. - MSDS supplier
2-(2-Butoxyethoxy) ethanol : LC 50 - 48h daphnia (Daphnia magna) > 100 mg/L. - MSDS supplier
L-(+)-lactic acid : EC 50 - 48h daphnia 240 mg/L. - MSDS supplier
L-(+)-lactic acid : LC 50 - 48h fishes 320 mg/L. - MSDS supplier
L-(+)-lactic acid : EC 50 algae 3,500 mg/L. - MSDS supplier
2-(2-Butoxyethoxy) ethanol : EC 50 algae (Scenedesmus subspicatus) > 100 mg/L. - MSDS supplier
L-(+)-lactic acid : EC 50 - 48h daphnia (Daphnia magna) 130 mg/L. - MSDS supplier
L-(+)-lactic acid (80%) : EC 50 - 72h algae (Pseudokirschnereilla subcaptiata) 2,800 mg/L. - MSDS supplier
2-(2-Butoxyethoxy) ethanol (100%) : EC 50 - 48hours daphnia (Daphnia magna) (OECD 202): 4,950 mg/L. - MSDS supplier

Degradability
Salicylic acid (99%) : . Easily biodegradable. - MSDS supplier
L-(+)-lactic acid : Biodegradability . Easily biodegradable. - MSDS supplier
2-(2-Butoxyethoxy) ethanol : Biodegradability . Easily biodegradable. - MSDS supplier

Bioaccumulation
L-(+)-lactic acid : Log Pow - 0.72 . Not bioaccumulative - MSDS supplier
Salicylic acid (99%) : . Not bioaccumulative - MSDS supplier
2-(2-Butoxyethoxy) ethanol : . Not bioaccumulative - MSDS supplier

Mix-related data: :

Acute toxicity
fishes . No data available.
daphnia . No data available.
algae . No data available.

Chronic toxicity
. No data available.

Degradability
. The surface agents contained in this mix are in line with the requirements of the Detergent Regulation 648/2004/EC.

Bioaccumulation
. No data available.

Mobility
. No data available.

Conclusion :
The mixture is not 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

12.6 Endocrine disrupting properties

Not concerned

12.7. Other adverse effects

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Treatment of the mixture :
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)

14.1 UN number or ID number : 3265

14.2 UN proper shipping name :
CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S. (L-(+)-lactic acid)

14.3 Transport hazard class(es) : 8

14.4 Packing group : III
Hazard identification number : 80
Label : 8

Tunnel code : (E)

14.5 Environmental hazards : No

14.6 Special precautions for user : No information.

Limited Quantity (QL): 5L

MARITIME TRANSPORT : IMDG

14.1 UN number or ID number :3265

14.2 UN proper shipping name : CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S. (L-(+)-lactic acid)

14.3 Transport hazard class(es) : 8

14.4 Packing group : III

14.5 Environmental hazards
Marine pollutant : No

14.6 Special precautions for user : No information.
EmS number : F-A,S-B

Limited Quantity (QL): 5L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

SECTION 15: REGULATORY INFORMATION

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

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :
Not concerned

Regulations relating to the hazards from major accidents :
SEVESO 3 Directive (2012/18/EC) : Not concerned

Regulations relating to the classification, packaging and labelling of substances and mixtures :
Regulation (EC) 1272/2008 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.

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals : Not concerned

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 (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

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

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:
1

Regulation (EC) 648/2004 :

Comply with national and local legislation.

UN Globally Harmonised System (GHS) on Classification and Labelling of Chemical (GB CLP - SI 2020 No. 1567) and UK REACH (SI 2020 No. 1577)

15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.
In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.
Regulations are only stated in order to help users fulfill the duties involved in the use of the product.
This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :
Not concerned

List of H phrases referred to in section 3 :
EUH 071 : Corrosive to the respiratory tract.
H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H361 : Suspected of damaging the unborn child.

Sources of key data used to compile the data sheet :
MSDS supplier
International limit values for chemical agents

Safety Data Sheet compliant with Regulation (EU) 2020/878

Version 7.0.0
Creation date : 2024-11-18
Revision: 2024-11-18
Print Date : 2024-11-18

Historical :
Version 7.0.0
Cancels and replaces previous version .