

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

Version 7.0.0 Creation date : 23/07/19 Revision: 06/12/22 Print Date : 24/02/23

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

1.1. Product identifier

Trade name	LANODIP CONC
UFI :	6U0F-W0P6-600X-GX2D

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

Use of the product

LIQUID ACID Disinfection of teats of milk producing animals by dipping, foaming or spraying before milking Disinfection of teats of milk producing animals by dipping, foaming or spraying after milking Concentrated liquid for professional use only Manual or automatic application - Indoor

1.3. Details of the supplier of the safety data sheet

Company identification

Kilco (International) Ltd Broomhouses 2 Industrial Estate Old Glasgow Road Lockerbie United Kingdom DG11 2SD +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



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2.1. Classification of the substance or mixture

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

Substance corrosive to metals - Category 1 Serious damage to eyes - Category 1

Specific target organ toxicity (STOT) - repeated exposure - Category 2

H373: May cause damage to the thyroid following

repeated or prolonged exposure.

H290: May be corrosive to metals.

H318: Causes serious eye damage.

Hazardous to the aquatic environment - Chronic effects.

H411: Toxic to aquatic life with long lasting

2.2. Label elements

Category 2

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s):



Signal word : Danger

Contains : Iodine+ Alcohols, C12-C14, ethoxylated

Hazard statement(s) :

H290: May be corrosive to metals.

H318: Causes serious eve damage.

- H373: May cause damage to the thyroid following repeated or prolonged exposure.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s) :

- P102: Keep out of reach of children.
- P234: Keep only in original packaging.
- P260: Do not breathe mist/vapours/spray.
- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection.

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.



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- P314: Get medical advice/attention if you feel unwell.
- P390: Absorb spillage to prevent material damage.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable as this involves a mixture.

3.2. Mixtures

Chemical nature of the mixture : LIQUID ACID

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Туре
15% <= Glycerol < 30%	56-81-5	200-289-5		01-2119471987-18	Not classified		(2)
10% <= Alcohols, C12-C14, ethoxylated < 25%	68439-50-9				Eye Dam. 1 H318 Acute Tox. 4 (oral) H302 Aquatic Chronic 3 H412		(1)
1% <= lodine < 5%	7553-56-2	231-442-4	053-001-00-3	Biocidal active substance, regarded as already registered	Acute Tox. 4 (oral) H302 Acute Tox. 4 (dermal) H312 Acute Tox. 4 (inhalation) H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 1 H372 Aquatic Acute 1 H400	M Factor (Acute) 1	(1) (2)
1% <= Sodium iodide < 5%	7681-82-5	231-679-3			Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315		(1)

Type

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



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- (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
- (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 : Bring to fresh air.

In the event of contact with the skin : Wash with water.

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. Get medical advice.

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

Skin contact : LANODIP CONC is not regarded as a mix which is irritating to the skin.

Eye contact : Causes serious eye damage.

Ingestion : May cause damage to the thyroid following repeated or prolonged exposure.

Inhalation : No data available.

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

Treatments : Symptomatic treatment



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5.1. Extinguishing media

Suitable extinguishing media : Water, powder extinguisher, foam, carbon dioxide. 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

LANODIP CONC is non-flammable.

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

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

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 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.



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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.

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 container closed.

7.2.2. Packaging or wrapping materials : High density polyethylene recommended.

7.3. Specific end use(s)

LANODIP CONC is for use as a biocide.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values :

Substance	CAS number	Country	Туре	Value	Unit	Comments	source
Glycerol	56-81-5	GBR	OEL 8h	10	mg/m³		International limit values for chemical agents
lodine	7553-56-2	GBR	OEL Short term	0,1	ppm		International limit values for chemical agents
				1,1	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 :



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> 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 :

For manual spraying applications BEFORE OR AFTER MILKING : Wear eye protection compliant with EN166 standard.



Hand protection :

For manual spraying applications BEFORE OR AFTER MILKING : Wear protective chemical resistant gloves (nitrile rubber).



Skin protection :

For manual spraying applications BEFORE OR AFTER MILKING : Wear protective clothing.



Respiratory protection : No special protection measure is required.

Thermal hazards : Not applicable

Health measures :

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



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> Appearance Colour Odour Odour threshold Freezing point Melting point **Boiling point** Flammability Lower explosive limit upper explosive limit Flash point Auto-ignition temperature Decomposition temperature Pure pH pH value at 10g/l kinematic viscosity Solubility in water Solubility Partition coefficient: n-octanol/water Vapour pressure Relative density Mass density Vapour density Particle characteristics

Opaque homogeneous liquid brown Characteristic Not available -10 °C Not applicable Not available Not applicable Not applicable Not applicable Not applicable Not applicable Not available 4±0.7 Not available Not applicable Soluble in water in all proportions Not applicable Not applicable Not available 1.11 ± 0.01 1.11±0.01 a/cm³ Not available Not applicable

9.2. Other information

Explosive properties Oxidising properties Viscosity (20°C, spindle S00, 6 r/mn) Evaporation rate: Not applicable Not applicable 89±10 cPo 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

None to our knowledge.

10.4. Conditions to avoid

Storage below the freezing point.

10.5. Incompatible materials

None to our knowledge.



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10.6. Hazardous decomposition products

None to our knowledge in standard conditions of use.

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 Iodine : LD 50 - oral rat 315 mg/kg. - MSDS supplier Iodine : LD 50 - dermal rabbit 1,425 mg/kg. - MSDS supplier Iodine : LC 50 - inhalation - 4h rat (OECD 403): 4.588 mg/L. - Dust - MSDS supplier Alcohols, C12-C14, ethoxylated : LD 50 - oral rat 300 - 2,000 mg/kg. - MSDS supplier

Skin corrosion/irritation Iodine : Skin irritation . Irritating - MSDS supplier

Serious damage to eyes/eye irritation Iodine : Eye irritation . Irritating - MSDS supplier Alcohols, C12-C14, ethoxylated (90%) : Eye irritation . Risk of serious damage of eyes - MSDS supplier

Sensitisation Iodine : Skin sensitisation (OECD 429): . Not sensitising - MSDS supplier Alcohols, C12-C14, ethoxylated (90%) : Sensitisation . Not sensitising - MSDS supplier

Reproductive toxicity Iodine : NOAEL 10 mg/kg/j. - MSDS supplier

Specific target organ toxicity - single exposure Iodine : Inhalation : . Irritating to respiratory system. - MSDS supplier

Specific target organ toxicity - repeated exposure lodine : NOAEL - oral - 100days rat 0.375 mg/kg bw day. Causes damage to the thyroid following repeated or prolonged exposure (STOT-RE Cat. 1). - MSDS supplier

Mix-related data: :

Acute toxicity

LD 50 - oral rat (Sprague-Dawley) (OECD 423): > 2,000 mg/kg. The product has not been tested. The information comes from structure or analogue composition products.

Skin corrosion/irritation

Skin irritation . The mix is not considered to be irritating 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.



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> Respiratory / skin sensitisation Skin sensitisation . The mixture is not considered as a skin sensitiser according to 1272/2008/EC Regulation. Respiratory sensitisation . The mixture is not considered as a respiratory sensitiser according to 1272/2008/EC Regulation.

Mutagenicity

. The classification criteria are not met given the available data.

Carcinogenicity . The classification criteria are not met given the available data.

Reproductive toxicity . The classification criteria are not met given the available data.

Specific target organ toxicity - single exposure . The classification criteria are not met given the available data.

Specific target organ toxicity - repeated exposure

. May cause damage to the thyroid following repeated or prolonged exposure under the criteria of Regulation 1272/2008/EC (STOT-RE Cat. 2).

Aspiration hazard

. The classification criteria are not met given the available data.

Most important symptoms and effects, both acute and delayed :

Skin contact : LANODIP CONC is not regarded as a mix which is irritating to the skin.

Eye contact : Causes serious eye damage.

Ingestion : May cause damage to the thyroid following repeated or prolonged exposure.

Inhalation : No data available.

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

Iodine : EC 50 - 48h daphnia (Daphnia magna) 0.55 mg/L. - MSDS supplier Iodine : LC 50 - 96h fishes (Oncorhynchus mykiss) 1.67 mg/L. - MSDS supplier Iodine : EC 50 - 72h algae (Desmodesmus subspicatus) 0.13 mg/L. - MSDS supplier Iodine : NOEC - 14days soil 1,000 mg/kg. - MSDS supplier

Degradability

Alcohols, C12-C14, ethoxylated (90%): Biodegradability . Surfactant(s) contained in this preparation comply with biodegradability criteria as defined in (EC) regulation nº 648/2004 on detergents. - MSDS supplier



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> ABIOTIC DEGRADABILITY Iodine : . Fast hydrolysis - MSDS supplier

Bioaccumulation Iodine : Log Pow 2.49 . - MSDS supplier

Mix-related data: :

Acute toxicity fishes . Not determined daphnia . Not determined algae . Not determined

Chronic toxicity . No data available.

Degradability . No data available.

Bioaccumulation . No data available.

Mobility . No data available.

<u>Conclusion :</u> 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

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 :



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> 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 no : 1903

14.2 UN proper shipping name : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Alcohols, C12-C14, ethoxylated)

14.3 Transport hazard class(es) : 8

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



Tunnel code : (E)

14.5 Environmental hazard : Yes (Alcohols, C12-C14, ethoxylated + lodine)

14.6 Special precautions for user : No information.

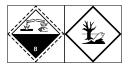
Limited Quantity (QL): 5L

MARITIME TRANSPORT : IMDG

14.1 UN no :1903

14.2 UN proper shipping name : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Alcohols, C12-C14, ethoxylated)

14.3 Transport hazard class(es) : 8



14.4 Packing group : III

14.5 Environmental hazard



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Marine pollutant : Yes (Alcohols, C12-C14, ethoxylated + lodine)

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 : Active ingredient: lodine

Regulations relating to the hazards from major accidents : SEVESO 3 Directive (2012/18/EC) : E2

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: Not concerned

Regulation (EC) 648/2004 : Not concerned

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)



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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 : Revision of the safety data sheet according to (EU) 2020/878 Regulation.

List of H phrases referred to in section 3 :

- H302 : Harmful if swallowed.
- H312 : Harmful in contact with skin.
- H315 : Causes skin irritation.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H332 : Harmful if inhaled.
- H335 : May cause respiratory irritation.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H400 : Very toxic to aquatic life.
- H412 : Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet : MSDS supplier

Historical : Version 7.0.0 Cancels and replaces previous version 6.1.