

## MILKSTONE REMOVER

Code: 01BC0

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

Version **7.0.0**

Creation date : **13/07/22**

Revision: **13/07/22**

Print Date : 15/07/22

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

### 1.1. Product identifier

Trade name MILKSTONE REMOVER

UFI : TPNG-J096-H00S-3FT2

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

Use of the product

liquid acid detergent  
AN ACID BASED BLENDER DESCALER DESIGNED FOR THE REMOVAL OF  
SCALE DEPOSITS IN MILKING EQUIPMENT AND BULK MILK TANKS

### 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

## 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.

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Substance corrosive to metals - Category 1	H290: May be corrosive to metals.
Acute toxicity - Category 4 (per oral route)	H302: Harmful if swallowed.
Skin corrosion - Category 1A	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 : Phosphoric Acid

Hazard statement(s) :

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

Precautionary statement(s) :

P264: Wash hands, forearms and face carefully after handling.

P280: Wear protective gloves/protective clothing/eye protection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

P304+P340+P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

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### 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 detergent

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
25% <= Phosphoric Acid <= 40%	7664-38-2	231-633-2	015-011-00-6	01-2119485924-21 01-2119485924-24	Skin Corr. 1B H314 Met. Corr. 1 H290 Acute Tox. 4 (oral) H302	C ≥ 25% Skin Corr. 1B H314 10% ≤ C < 25% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1) (2)

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

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 :

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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

If breathing is difficult, a qualified person must administer oxygen.

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 case of extensive burns, hospitalize.

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.

Send to hospital.

Make the victim drink plenty of water immediately.

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

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Inhalation : Not considered as hazardous through inhalation under normal conditions of use.

#### 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 :

Foam, powder, carbon dioxide.

Waterspray.

Unsuitable extinguishing media :

High pressure water jet

#### 5.2. Special hazards arising from the substance or mixture

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MILKSTONE REMOVER is non-flammable.

#### 5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.

### 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 :

Use personal protection equipment.

#### 6.2. Environmental precautions

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 :

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

Collect in a boltable container; clean the contaminated zone with water and to air.

Large spillage :

Never return spills in original containers for re-use.

Keep in suitable, properly labelled and closed containers for disposal.

#### 6.4. Reference to other sections

Respect protective measures presented at heading 8.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing.

Ensure a sufficient ventilation in case of risk of formation of vapours or aerosols.

Handle the product with care.

Do not eat, drink or smoke in work area. Avoid projections during use.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### 7.2.1. Storage :

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Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.  
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)

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
Phosphoric Acid	7664-38-2	GBR	OEL 8h	1	mg/m³		International limit values for chemical agents
			OEL Short term	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.

#### 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.



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#### Hand protection :

Use chemical resistant gloves approved to EN 374.

Materials adapted for a prolonged direct exposure:

Natural rubber.

Butyl rubber.

Nitrile rubber.

Neoprene.

Do not wear polyvinyl alcohol (PVA) gloves.



#### Skin protection :

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

Wear boots and a protective cloth with chemical resistance in PVC, rubber.



#### Respiratory protection :

In case of insufficient ventilation (Efficacy of local exhaust ventilation below 95%), at the time of applications by spraying, wear a complete mask in conformity with the European standard EN 136 equipped with a filter (in conformity with the European standard EN 143) of the following type:

E: gas and acid vapours.

P2: Particles, solid aerosols and liquids



#### Thermal hazards :

Not applicable

#### Health measures :

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

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Appearance	Liquid
Colour	Red
Odour	Not available
Odour threshold	Not available
Freezing point	Not available
Melting point	Not applicable
Boiling point	Not available
Flammability	non-flammable
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH value at 10g/l	Not available
Pure pH	1.1±0.9
kinematic viscosity	Not available
Solubility	Not applicable
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Not available
Relative density	Not available
Mass density	1.185±0.01 g/cm³
Vapour density	Not available
Particle characteristics	Not applicable

### 9.2. Other information

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

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable in the recommended storage and handling conditions.

### 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

High temperatures.

### 10.5. Incompatible materials

Strong acids.  
Strong oxidants.  
Metals.



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#### 10.6. Hazardous decomposition products

Combustion generates toxic fumes (nitrogen oxide, carbon monoxide)

In presence of metal, release of hydrogen that is flammable and/or explosive if it catches fire.

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

Phosphoric Acid : LC 50 - inhalation - 1h rat 3.846 mg/L. - MSDS supplier

Phosphoric Acid : LD 50 - dermal rabbit 2,740 mg/kg. - MSDS supplier

Phosphoric Acid : LD 50 - oral rat 500 mg/kg. - MSDS supplier

##### Mix-related data: :

Acute toxicity

. Harmful if swallowed.

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 . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.

Respiratory sensitisation . The mixture is not considered as a respiratory sensitizer 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

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

Aspiration hazard

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

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Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Inhalation : Not considered as hazardous through inhalation under normal conditions of use.

#### 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

Phosphoric Acid : LC 50 - 96h fishes 3 - 3.25 mg/L. - MSDS supplier

Phosphoric Acid : EC 50 - 72H algae (OECD 201): > 100 mg/L.

Phosphoric Acid : EC 50 - 48h daphnia (OECD 202): > 100 mg/L. - 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

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#### 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 no : 1805

14.2 UN proper shipping name :  
PHOSPHORIC ACID IN SOLUTION

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 : No

14.6 Special precautions for user : No information.

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Limited Quantity (QL): 5L

#### MARITIME TRANSPORT : IMDG

14.1 UN no :1805

14.2 UN proper shipping name : PHOSPHORIC ACID IN SOLUTION

14.3 Transport hazard class(es) : 8



14.4 Packing group : III

14.5 Environmental hazard

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

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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 :

In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.

Ingredient datasheet for the medical staff is available upon written request.

Contains :

>30% Phosphates

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 :

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H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

Sources of key data used to compile the data sheet :

MSDS supplier

Historical :

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Cancels and replaces previous version .