

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

1.1 Product identifier

Trade name KALKO 0,5

Article-no 1301

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

Product type Pickling agent (metal).
Lime deposit remover.

1.3 Details of the supplier of the safety data sheet

SDS created by Intersolia Sweden AB

Manufacturer Trion Tensid AB

Street address Svederusgatan 1-3
SE-754 50 Uppsala

Telephone +46 18 15 61 90

Fax +46 18 69 66 27

Email info@trion.se

1.4 Emergency telephone number

Available outside office hours Yes

Emergency phone number 999

Other

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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008, Annex VI

Classification Skin corrosion, hazard category 1A
Acute toxicity, inhalation, hazard category 4

Hazard statements H314, H332

2.2 Label elements

GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

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Pictogram



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.

Precaution statements P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep 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/doctor/
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

2.3 Other hazards

Contains components that are toxic to aquatic organisms.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	H-phrase
Hydrochloric acid...%	7647-01-0 231-595-7 01-2119484862-27-	<20%	Skin Corr. 1A, Acute Tox. 3 - inhalation	H314, H331

Substance additional information For the full text of the H phrases mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Fresh air and rest.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing and shoes and continue rinsing. Contact a doctor if the irritation persists.
Eye contact	Rinse carefully with lukewarm water for several minutes. Keep the eyes wide open. Remove any contact lenses. Call a physician immediately. Continue to rinse during transport.
Ingestion	If the injured person is fully conscious, give him/her a couple of glasses of milk or water immediately. DO NOT INDUCE VOMITING! Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Fumes can have a strong irritant effect.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Ingestion can damage the throat and the gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatment needed

Ensure that eyewash station are close to the workplace.
Contact a doctor in the event of any wounds, even if the injury appears minor.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	carbon dioxide (CO ₂) or dry chemical. Fire extinguishing methods: Water must only be used by firefighters.
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Unsuitable extinguishing media	Do not use a direct jet of water.
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5.2 Special hazards arising from the substance or mixture

During fire, corrosive gases may be created. Remedation may be needed after a fire.

5.3 Advice for firefighters

Special protective equipment for fire-fighters	In the event of fire, wear self contained breathing apparatus. Wear suitable protective clothing.
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Other

Containers in the vicinity of fire should be moved immediately or cooled with water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use protective equipment as specified in section 8 of SDS. Avoid contact with: Skin and Eyes. Avoid inhaling fumes.

6.2 Environmental precautions

Prevent spreading by banking up with sand, soil or other suitable material. Prevent major discharges to drains, groundwater and surface water. In the event of major spillages, contact the emergency services. In the event of major discharges into water, contact the waterworks or sewage works.

6.3 Methods and material for containment and cleaning up

Bank up or absorb spilled fluid using sand, soil or some other suitable material.
Collect in a suitable container that is approved for this purpose. Rinse clean with plenty of water.
Only large-scale discharges can constitute a risk.

6.4 Reference to other sections

Personal protection see section 8 and for disposal see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions Wear suitable protective clothing if there is a risk of skin contact and/or eye contact. Avoid inhaling fumes. Avoid contact with oxidising substances and strong bases.

General hygiene Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Plastic packaging. Store in a locked area that is inaccessible to children.

7.3 Specific end use(s)

This product should only be used for those uses described in section 1.2

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits The product contains no relevant amounts of substances with workplace-related limits that must be monitored.

National occupational exposure limits

Ingredient	CAS no.	EC No.	Exposure limit mg/m ³ -ppm		Short-term exposure limit mg/m ³ -ppm		Remark	Source	Year
Hydrochloric acid...%	7647-01-0	231-595-7	2	1	8	5	-	EH40/2005 Workplace exposure limits	-

8.2 Exposure controls

Technical precaution measures The workplace and working methods are designed so as to prevent direct contact. Ensure that eyewash station are close to the workplace.

Eye / face protection Safety glasses with side-shields conforming to EN166.

Safety gloves Wear suitable protective gloves where there is a risk of skin contact. When handling chemicals, only CE marked chemical-resistant gloves may be used. The gloves must conform to the standard EN 374. Wear protective gloves made of: butylrubber, nitrile rubber or natural rubber.

Other skin protection Wear suitable protective clothing to prevent contact with the skin. Wash contaminated clothing before re-use.

Respiratory protection Breathing protection only in those cases where aerosol or mist can be formed. Breathing protection with type B filter (grey).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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Appearance, colour	colourless
Appearance, physical state	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Density	1050 kg/m ³
Evaporation rate	Not applicable
Explosive properties	Not applicable
Flammability (solid, gas)	Not applicable
Flash point	Not applicable
Form	Low viscosity liquid.
Initial boiling point and boiling range	Not applicable
Melting point / freezing point	Not applicable
Odour	hydrochloric acid
Odour treshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH concentrate	~0,50
pH in solution	~1,00
pH value	Not applicable
Relative density	Not applicable
Solubility	Miscible with water.
Solubility in water	100 %
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Viscosity	Not applicable

9.2 Other information

Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable

10.2 Chemical stability

Stable under normal usage and storage conditions.

10.3 Possibility of hazardous reactions

Reacts strongly with alkalis. The product reacts with calciferous materials and dissolves them.

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

In the event of contact with certain metals, hydrogen gas is formed, which together with air can form an explosive mixture.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Ingestion can damage the throat and the gastrointestinal tract.
Serious eye damage / irritation	Severe eye irritation
Irritation	Irritating to skin. Fumes can have a strong irritant effect.
Corrosive effects	Not applicable
Sensitisation	Not applicable
Mutagenicity	Not applicable
Carcinogenicity	Not applicable
Repeated dose toxicity	Not applicable
Reproductive toxicity	Not applicable
LD50 Oral	hydrochloric acid...% (rat): 900 mg/kg.
Toxicity in case of inhalation	Inhalation of high concentrations may cause irritation of the upper respiratory tract.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic	Local discharges of large volumes into aquatic environments can harm aquatic organisms. Can change the water's pH.
Soil	Temporary large discharges or frequent smaller discharges can have a harmful or destructive impact on the environment. Large volumes can be harmful to plants.

Acute fish toxicity hydrochloric acid...% (LC50): (96 h) 232 mg/l.

Acute crustacean toxicity hydrochloric acid...% (EC50): (48 h) > 56 mg/l.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

Non bio-accumulable in aquatic environments.

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

Other

This assessment is based on the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations Local provisions and EU provisions must be followed during waste handling. Do not use metal containers. Containers with residual content constitute hazardous waste. The company is affiliated to REPA.

Packaging Packages can be cleaned and recycled.

Other

Waste management The Waste Regulations 2011 No. 988
H4 Irritant: substances and preparations that are not corrosive, but that can cause inflammation in the event of direct, prolonged or repeated contact with the skin or mucous membranes.

Waste code (EWC) 20 01 14* Syror.

Additional waste information The waste code (EWC) is a recommendation. In the event of non-compliant handling, the end user is personally responsible for a suitable EWC code.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

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14.2 UN proper shipping name

Name	Hydrochloric acid solution
IMDG proper shipping name	Hydrochloric acid solution

14.3 Transport hazard class(es)

Label	8
ADR / RID Class	8
ADR / RID Classification code	C1
ADR / RID hazard identification number	80
IMDG Class	8
IMDG Marine Pollutant	No
IMDG EmS	F-A, S-B
IATA Class	8

14.4 Packing group

III

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Tunnel restriction code: E

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

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

EU regulations	Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH). European Parliament and Council Regulation (EC) No. 1272/2008, CLP. Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS. Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.
National regulations	EH40/2005 Workplace exposure limits Waste ordinance (2011:927). MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).

15.2 Chemical safety assessment

Not applicable

SECTION 16. OTHER INFORMATION

Changes to previous revision Changes are made in the following sections: 2, 3, 11, 12, 13, 15, 16.

References to key literature and data sources Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council. .
Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.
Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.
EH40/2005 Workplace exposure limits
Waste ordinance (2011:927).
MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).
www.prevent.se
C&L Inventory database
Information also obtained from the constituent substances' safety data sheets.

Phrase meaning Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3
Skin Corr. 1A - Skin corrosion, hazard category 1A
H314 - Causes severe skin burns and eye damage.
H331 - Toxic if inhaled.