



T&T Eco

SAFETY DATA SHEET

MAK D-SCALEX Descaler & Restoration Fluid

INFO SAFE No.: MC606

ISSUED Date : 01/11/2019

ISSUED by: T&T Eco

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

- 1.1 Product identifier**
- Product name** : MC606 MAK D-SCALEX
Registration number : not required, the product is a mixture, not a compound
Other means of identification : not set
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Identified uses** : cleaner and degreaser - concentrate
only for industrial or professional use
Uses advised against : not set
- 1.3 Details of the supplier of the safety data sheet**
- Distributor:**
- Company Name** : Track and Train Limited (T&T Eco)
Address : J R House 236 Imperial Drive, Rayners Lane, Harrow, Middlesex, HA2 7HJ, United Kingdom
Telephone : +44 (0) 7599 516 240
Emergency phone number : +44 (0) 7599 516 240
E-mail : mike@tandteco.com

Competent person responsible for the Safety Data Sheet: Gustav Vigato, Academical Team s.r.o.; Náměstí Přátelství 1518/2; 102 00, Praha - Hostivař;

- 1.4 Emergency telephone number**
Toxicology Information Centre, Na Bojišti 1, Praha; Czech Republic; 24-h non-stop: +420-224919293 / +420-224915402. Information only on health risks: acute intoxications of people / animals.

2. HAZARDS IDENTIFICATION

General classification of the mixture: the mixture is classified as hazardous in compliance with Regulation (EC) No. 1272/2008 (CLP).


Important health effects:

Concentrated mixture is corrosive. Direct contact with eyes may cause serious eye damage. Causes severe skin burns. Even after dilution, prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in mild irritation and dryness. Direct contact of diluted product with eyes may cause eye irritation. Swallowing of larger amounts may lead to stomachache, vomiting or diarrhea and other gastrointestinal problems. Inhalation of vapours and aerosols in high concentration can cause airways irritation




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Important environmental effects:

The mixture is not classified as hazardous for the environment. However, because of the high pH, large amount of the product may affect pH of aquatic environment (acidification). Concentrated mixture may cause burns in animals / aquatic organisms. When sufficiently diluted / neutralized, no adverse effects in the environment are expected.

2.1 Classification of the substance or mixture

Classification
(1272/2008/EC)

Skin Corr. 1B H314	Skin corrosion/irritation, category 1B Causes severe skin burns and eye damage.
STOT SE 3 H335	Specific target organ toxicity - single exposure, category 3 May cause respiratory irritation.

2.2 Label elements

Contains:

hydrochloric acid, sulphuric acid

Hazard pictograms:



Signal word:

DANGER

Hazard statements:

H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation.

Supplemental hazard information:

not required

Supplemental label elements for certain mixtures:

not required

Precautionary statements:

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER/doctor
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container to the hazardous waste collection point.

Other required labeling:

Regulation (EC) No 648/2004 on detergents
non-ionic surfactants 5 - < 15 %

2.3 Other hazards

Results of PBT and vPvB assessment: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; the substances in the mixture are not included in the Candidate List of SVHC.

Contaminated surfaces may be slippery



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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
does not apply

3.2 Mixtures
Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List:

Substance <i>REACH Registration number</i>	Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*	Exposure limits
hydrochloric acid <i>REACH 01-2119484862-27-XXXX</i>	10 - 20	231-595-7 7647-01-0 017-002-01-X	Skin Corr. 1B STOT SE 3	H314 H335 Exp. limit (nat./EC) see 8.1
alcohol C12-14, ethoxylated <i>REACH 01-2119487984-16-XXXX</i>	1 - 10	500-213-3 68439-50-9 -	Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 3	H318 H400 H412 -
sulphuric acid <i>REACH 01-2119458838-20-XXXX</i>	1 - 10	231-639-5 7664-93-9 016-020-00-8	Skin Corr. 1A	H314 Exp. limit (nat./EC) see 8.1

* For full wording of used classification abbreviations and Hazard Statements (H-phrases) see Section 16

Specific concentration limits according to 1272/2008 Annex VI Tab. 3.1

hydrochloric acid

Skin Irrit. 2; H315: $10\% \leq C < 25\%$
Eye Irrit. 2; H319: $10\% \leq C < 25\%$
Skin Corr. 1B; H314: $C \geq 25\%$
STOT SE 3; H335: $C \geq 10\%$

sulphuric acid

Skin Corr. 1A; H314: $C \geq 15\%$
Eye Irrit. 2; H319: $5\% \leq C < 15\%$
Skin Irrit. 2; H315: $5\% \leq C < 15\%$

4. FIRST AID MEASURES

4.1 Description of first aid measures

Health hazard is minimal; the product is not irritating, corrosive, volatile nor toxic. Effects of over exposure: There are no hazards under normal use conditions. Observe all user considerations and safety measures stated on the packaging. In case of any health problem or uncertainty seek medical attention and provide information from this Material Safety Data Sheet. Unconscious persons place in the stabilized position and observe the breathing. Never give any fluids to unconscious persons.

Inhalation: In case of problems following the aerosols / vapours inhalation, remove the affected persons to a fresh air. Administer oxygen or artificial respiration if there is difficulty breathing; until medical attendance. Regularly check vital functions, provide cardiopulmonary resuscitation if needed. Provide warm blanket.

Skin contact: Remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with large amount of water. Use appropriate reparative cream / ointment. Seek medical advice if the skin irritation persists



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- Eye contact:** Remove contact lenses if present. Keep eyelids open and rinse immediately and repeatedly with copious amount of water for at least 10 - 30 minutes. The rinsing should be done from the inner corner of the eye to the outer corner. Pay attention not to stain the other eye. Do not neutralize! In all cases - immediately seek specialized medical advice (ophthalmologist).
- Ingestion:** Wash mouth with water; give some water (0,2 - 0,3 l) to drink (only if the affected person is conscious). Do not induce vomiting! Risk of gastrointestinal tract perforation! In case of spontaneous vomiting avoid aspiration of the vomits. Get medical attention immediately and show this Safety Data Sheet, product package or label!

4.2 Most important symptoms and effects, both acute and delayed

Concentrated mixture is corrosive. Direct contact with eyes may cause serious eye damage. Causes severe skin burns. Even after dilution, prolonged or repeated skin contact may cause removal of natural fat from the skin resulting and mild irritation and dryness. Direct contact of diluted product with eyes may cause eye irritation. Swallowing of larger amounts may lead to stomachache, vomiting or diarrhea and other gastrointestinal problems. Inhalation of vapours and aerosols in high concentration can cause airways irritation. Do not induce vomiting! Do not use gastric lavage! Risk of gastrointestinal tract perforation!

4.3 Indication of any immediate medical attention and special treatment needed

No specific therapy known. Use supporting and symptomatic treatment. Be careful when the affected person is vomiting and during gastric lavage.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray, foam, dry-powder, carbon dioxide
Unsuitable extinguishing media: direct water stream

5.2 Special hazards arising from the substance or mixture

Non-flammable - water solution. Upon water evaporation - incomplete combustion and high-temp thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, soot, aldehydes and other products of organic compounds decomposition, hydrogen chloride, sulphur oxides etc.).

5.3 Advice for fire-fighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.



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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Observe all user considerations and safety measures. Avoid contact with skin, eyes and mucous membranes. See Section 8.2 for advice on the minimum requirements for personal protective equipment (protective goggles, clothes, gloves etc.). All unprotected persons should be restraint. All unprotected persons should be restraint. Ensure adequate ventilation in closed areas. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

6.2 Environmental precautions

Stop leak if you can do so without risk. Confine the spill immediately with booms. Avoid entering soil, surface- and ground-waters, drains, cellars or other closed rooms. In case of serious leakage inform appropriate authorities.

6.3 Methods and materials for containment and cleaning up

Soak up the rests with inert absorbent material (sand, diatomite, kaolin, vapex...) and collect to appropriate containers with lids. All containers with waste should be appropriately labeled. Contaminated absorbent material represents same risks as original product. Dispose according to valid legislation; send to dangerous wastes treatment facility. Clean up affected areas with large amount of water.

6.4 Reference to other sections

Adhere to instructions in the section 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and mucous membranes. Adhere to all personal protection and work safety regulations. See Section 8.2 for advice on the minimum requirements for personal protective equipment (protective goggles, clothes, gloves etc.). Observe all user considerations, safety measures and exposure limits. Do not eat, drink or smoke when manipulating with the product. For continuous work (e.g. packaging) ensure adequate ventilation. Manipulate carefully to avoid accidental leaks. For manipulation use only polyethylene (HDPE) containers.

7.2 Conditions for safe storage, including any incompatibilities

Store in original tightly closed packages or in other appropriate vessels made of high-density polyethylene (HDPE). Store in dry, bunded spaces, protected from weather. The floor of the storage room should be resistant to acids. Storage rooms should be equipped with adequate ventilation on the floor level and with neutralization material. Keep away from direct sunlight a heat sources. Protect from freezing. Recommended storage temperatures: +5°C to +35°C. Keep out of the reach of children. Observe all requirements for fire protection. Keep away from strong acids and oxidative compounds. Keep away from food, beverages and animal forage.

7.3 Specific end uses

universal cleaner



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits (Czech Republic, Government Regulation No. 361/2007 Coll.):

CAS	Substance name	NPEL
7647-01-0	hydrochloric acid as: <i>hydrogen chloride</i>	Czech republic (361/2007 Coll.) PEL (8 h): 8 mg.m-3 NPEL-P (15 min): 15 mg.m-3 <i>Note I: causes mucosa (eyes, airways) or skin irritation</i>
7664-93-9	sulfuric acid as: <i>sulphuric acid (mist of concentrated acid)</i>	Czech republic (361/2007 Coll.) PEL (8 h): 0,05mg.m-3 NPEL-P (15 min): - <i>Note D: exposure is importantly enhanced through skin penetration</i>
7664-93-9	sulfuric acid as: <i>sulphur oxide (SO3)</i>	Czech republic (361/2007 Coll.) PEL (8 h): 1 mg.m-3 NPEL-P (15 min): 2 mg.m-3 <i>Note D: exposure is importantly enhanced through skin penetration</i>

Indicative occupational exposure limit ES (2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC and Directive 2017/164/EC):

CAS	Substance name	IOEL
7647-01-0	hydrochloric acid as: <i>hydrogen chloride</i>	IOEL mean (8 h): 5 ppm / 8 mg.m-3 IOEL short (15 min): 10 ppm / 15 mg.m-3
7664-93-9	sulfuric acid as: <i>sulfuric acid (mist)</i>	IOEL mean (8 h): 0,05mg.m-3 IOEL short (15 min): -

Other recommended values: not set

CAS	Substance name	OEL - equivalents
-	-	-

Indicative biological limits: not set

DNEL: not set for the mixture

PNEC: not set for the mixture

8.2 Exposure controls

Appropriate engineering controls:

Avoid contact with skin, eyes and mucous membranes. Ensure adequate ventilation. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Individual protection measures, such as personal protective equipment:

a) *Eye / face protection*

Avoid contact of concentrated mixture with eyes. Always use safety glasses with side shields or full-faced shield (EN 166).

b) *Skin protection:*

For long-time work with the risk of direct contact chemical -(acid)-resistant protective gloves are recommended. CEN standards EN 420 and EN 374 provide general requirements and lists of glove types. Recommended material: nitril-, butyl-rubber, PVC. Short-term contact: protection index 3,



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breakthrough time min. 60 min.. Do not wear rings, watches or other items that should retain the mixture on the skin. Because of the lack of specific tests, the breakthrough time should be twice the expected contact time. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Note: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Inspect and immediately replace worn or damaged gloves.

c) *Respiratory protection:*

Not usually required under appropriate ventilation or exhaustion at the workplace. Do not inhale vapours or aerosols. Ensure appropriate ventilation or exhaustion at the workplace. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: half-face filter respirator, with combined filter A/B/E/P2 (European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 (STN EN 14387+A1) provide filter recommendations).

d) *Thermal hazards:*

No such risk when normally used.

Environmental exposure controls:

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. All storage and manipulation areas have to be equipped for the sanitation of possible leakage. See information in sections 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Properties	value	method / condition
Appearance:	liquid	20°C
Colour:	yellow	-
Odour:	specific, weak	-
Odour threshold:	information not available	-
pH:	1	-
Melting point/freezing point:	information not available	-
Initial boiling point and boiling range:	100°C	-
Flash point:	information not available	-
Evaporation rate:	information not available	-
Flammability (solid, gas)	information not available	-
Upper/lower flammability or explosive limits:	information not available	-
Vapour pressure:	information not available	-
Vapour density:	> 1	relative, air = 1
Relative density:	1.15 g/cm ³	water, 20°C
Solubility/ies:	good soluble in water	-
Partition coefficient: n-octanol/water:	information not available	-
Auto-ignition temperature:	information not available	-
Decomposition temperature:	information not available	-
Viscosity:	information not available	-
Explosive properties:	not explosive	-



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Oxidising properties:

no oxidative properties

9.2 Other information

-

-

-

10. STABILITY AND REACTIVITY

10.1 Reactivity

The mixture is a strong acid. The mixture may react with various alkali materials, such as hydroxides, amines, alkali metals and other. May corrode marble and natural stone.

10.2 Chemical stability

Mixture is chemically stable under normal conditions of storage and use. Overheating may cause thermal decomposition

10.3 Possibility of hazardous reactions

Violent reactions with strong alkalis/hydroxides.

10.4 Conditions to avoid

Stable under normal conditions. Keep away from direct sunlight and heat sources. Protect from freezing.

10.5 Incompatible materials

Strong oxidative compounds, alkalis, alkali metals, non-precious metals.

10.6 Hazardous decomposition products

Material does not decompose at ambient temperatures. If fire is involved: upon water evaporation-incomplete combustion and high-temp thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, soot, aldehydes and other products of organic compounds decomposition, hydrogen chloride, sulphur oxides etc.).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The mixture was not toxicologically tested; classification is based on the conventional calculation method. Information on toxic effects is based on the effects of compounds.

a) Acute toxicity

Based on available data, the classification criteria are not met. No toxicology data for the mixture.

Toxic effects are caused by corrosive properties of the mixture: Swallowing may cause mucosal irritation and even perforation of gastrointestinal tract. Swallowing of even small amounts may lead to stomachache, vomiting or diarrhea and other gastrointestinal problems.

No toxicology data for the mixture.

Compounds:

hydrochloric acid

LD50, oral, rat: 238 - 277 mg/kg

LC50, dermal, rabbit: > 5010 mg/kg

sulphuric acid

LD50, oral, rat: 2140 mg/kg

LC50, inhalation, rat, 4 h: 210 mg/l



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- b) *Skin corrosion/irritation*
Causes severe skin burns. Prolonged or repeated skin contact with diluted product may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).
- c) *Serious eye damage/irritation*
Causes serious eye damage. Direct contact with diluted product may cause temporarily eye irritation.
- d) *Respiratory or skin sensitization*

Based on available data, the classification criteria are not met. Compounds have no known sensitizing potential.
- e) *Germ cell mutagenicity*
Based on available data, the classification criteria are not met. Compounds have no potential for mutagenicity.
- f) *Carcinogenicity*
Based on available data, the classification criteria are not met. Compounds have no potential for carcinogenicity.
- g) *Reproductive toxicity*
Based on available data, the classification criteria are not met. Compounds have no potential for reproductive toxicity.
- h) *STOT-single exposure*
May cause respiratory irritation. Inhalation of vapours / mist and aerosols in high concentration can cause airways irritation.
- i) *STOT-repeated exposure*
Based on available data, the classification criteria are not met. Not expected to cause specific damage from prolonged or repeated exposure.
- j) *Aspiration hazard*
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The mixture was not ecotoxicologically tested; classification is based on conventional calculation method. Information on ecotoxic effects is based on the effects of compounds. Based on composition, no adverse effects in the environment are expected for the mixture; therefore the mixture is not considered as dangerous for the environment.

However, because of the very low pH, large amount of the product may affect pH of aquatic environment (acidification). Concentrated mixture may cause burns in animals / aquatic organisms. When sufficiently diluted / neutralized, no adverse effects in the environment are expected.

Compounds:

hydrochloric acid

LC50, fish, 96 h:	20,5 mg/l
LC50, crustaceans, Daphnia sp., 72 h:	0,45 mg/l
EC50, algae, 72 h:	0,73 mg/l



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sulphuric acid

EC50, crustaceans, Daphnia sp., 24 h:
CL50, fish, 48 h:
CL50, fish, 96 h:

29 mg/l
100 - 330 mg/l
> 500 mg/l

12.2 Persistence and degradability

Information for the mixture not available. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Biodegradability:

> 90 % (OECD)

12.3 Bioaccumulative potential

No data for the mixture. Based on composition, bioaccumulation is not expected.

12.4 Mobility in soil

No data for the mixture. Soluble in water (unlimited).

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; the substances in the mixture are not included in the Candidate List of SVHC

12.6 Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose according to valid legislation; send to approved wastes treatment facility. Dispose in accordance with the valid European and national waste legislation. Avoid entering soil, drains, surface- and ground-waters. Product and packages should be disposed in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use.

Substance or mixture disposal methods:

Dispose in accordance with the valid waste legislation. Do not dispose as a common household waste. Dispose in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use.

Proposed waste classification, based on common use:

07 WASTES FROM ORGANIC CHEMICAL PROCESSES

07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

Waste type name: aqueous washing liquids and mother liquors

Waste catalog code: 07 06 01

Hazardous waste: yes

Contaminated packages disposal methods:

Dispose in accordance with the valid waste legislation. Empty packages wash with water and recycle.

Proposed waste classification, based on common use:

15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 packaging (including separately collected municipal packaging waste)

Waste type name: paper and card board packaging / plastic packaging



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Waste catalog code for empty package: 15 01 01 / 15 01 02
Hazardous waste: no

14. TRANSPORT INFORMATION

The mixture is classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

14.1 UN Number: UN 1760

14.2 UN proper shipping name

Road transport ADR	Rail transport RID	International maritime transport IMDG	Air transport ICAO/IATA
CORROSIVE LIQUID, N.O.S. (hydrochloric acid)	CORROSIVE LIQUID, N.O.S. (hydrochloric acid)	CORROSIVE LIQUID, N.O.S. (hydrochloric acid)	CORROSIVE LIQUID, N.O.S. (hydrochloric acid)

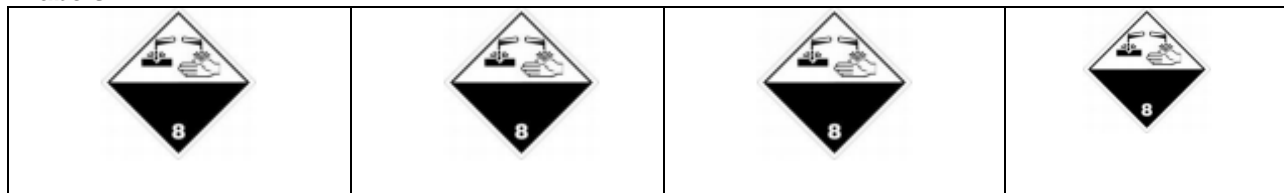
14.3 Transport hazard class(es)

Road transport ADR	Rail transport RID	International maritime transport IMDG	Air transport ICAO/IATA
8	8	8	8
Classification code			
C9	C9	C9	C9

Hazard identification number (Kemler)

80	80	-	-
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Labels



Other remarks

Limited and quantities: E2 (1 l) Tunnel restriction: E Transport category: 2 Special provisions: P001, IBC02	Limited and quantities: E2 (1 l) Tunnel restriction: E Transport category: 2 Special provisions: P001, IBC02	Marine pollutant: No	-
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14.4 Packing group

Road transport ADR	Rail transport RID	International maritime transport IMDG	Air transport ICAO/IATA
II	II	II	II

14.5 Environmental hazards: no

14.6 Special precautions for user: not required

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not transported



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15. REGULATORY INFORMATION

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

Relevant legislation European Union:

- Regulation (EC) No 1907/2006 of the European Parliament and of the , concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
- Commission Directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC
- European Waste Catalogue
- Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations
- Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products Text with EEA relevance

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

<i>Designation of the substance, of the group of substances or of the mixture</i>	<i>Conditions of restriction</i>
hydrochloric acid REACH 01-2119484862-27-XXXX	Regulation EC 1907/2006, Annex XVII, Article 3
alcohol C12-14, ethoxylated REACH 01-2119487984-16-XXXX	Regulation EC 1907/2006, Annex XVII, Article 3
sulphuric acid REACH 01-2119458838-20-XXXX	Regulation EC 1907/2006, Annex XVII, Article 3

15.2 Chemical safety assessment

Chemical safety assessment not carried yet

16. OTHER INFORMATION

a) Changes made to the previous version of the safety data sheet

Not applicable, first edition - version 1.0

Key or legend to abbreviations and acronyms used in the safety data sheet

Skin Corr. 1A Skin corrosion/irritation, category 1A

Skin Corr. 1B Skin corrosion/irritation, category 1B

Skin Irrit. 2 Skin corrosion/irritation, category 2



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Eye Dam. 1	Serious eye damage/eye irritation, category 1
Eye Irrit. 2	Serious eye damage/eye irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, category 3
Exp. lim.	Exposure limit
NPEL	The highest permissible exposure limit (Slovak Republic)
PEL	Permissible exposure limit (short-term) (Czech Republic)
NPEL-P	The highest permissible exposure limit (long-term) (Czech Republic)
OEL	Occupational exposure limit
ACGIH	American Conference of Industrial Hygienists
PBT	Substances persistent, bioaccumulative and toxic
vPvB	Substances very persistent and very bioaccumulative
VOC	Volatile organic compound
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
LD50	Median lethal Dose
LC50	Median lethal concentration
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	International Rule for Transport of Dangerous Substances by Railway
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association

c) *Key literature references and sources for data*

Original composition from the manufacturer and Safety data sheets of used compounds.

d) *Methods of evaluating information used for the purpose of classification*

The mixture was classified by expert judgment and conventional calculations methods in accordance with the Regulation EC No. 1272/2008 (CLP).

e) *Full wording of used Hazard Statements (H-phrases)*

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects

f) *Advice on any training appropriate for workers*

Not applicable for consumer. Before handling, storing or using the present substance for the first time, employees must be informed – common occupational safety training. SAFETY DATA SHEET should always be available at hand.

g) *Other information*

This Safety Data Sheet is compiled in accordance with the Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830; and contains information on safety use, occupational health protection, and environmental protection. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. This particular information applies on the product as supplied and may not be valid in mixtures with other substances. If used for other purposes as identified in this SDS, the distributor is not liable for any damage.

The information given herein in no way dispenses the user from knowing and applying all provisions



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regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.



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