



MATERIAL SAFETY DATA SHEET

According to 91/155/EEC, 93/112/EC, 2001/58/EC

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Date of issue : Dec 2019

Date of revision : Dec 2024

FOR EMERGENCY AND GENERAL INFORMATION

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SECTION 1 - PRODUCT IDENTIFICATION

Product Name : Crew[®] Toilet Bowl Cleaner

Application of the product : Professional cleaning/maintenance product for building care.

SECTION 2 - HAZARDS IDENTIFICATION

Classification :



C, Corrosive

Hazards for man and the environment :

R 35 - Causes severe burns.

R 36/38 - Irritating to eyes and skin.

R 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system : The classification complies with current EC regulations on dangerous substances and preparations.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization

Description : Mixture in water of non-dangerous ingredients and substances listed below.

Hazardous ingredients :

CAS: 7647-01-0	hydrochloric acid	C; R 34-37	5 - 15%
EINECS: 231-595-7			

Ingredients according to EC Detergents Regulation 648/2004 :

nonionic surfactants, perfume (methyl salicylate)	< 10%
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Additional information : The full text of the relevant risk phrases is given in section 16.

SECTION 4 - FIRST AID MEASURES

General information : Remove contaminated clothing immediately.

Inhalation : In case of unconsciousness bring patient into stable side position for transport.

Skin contact : Wash skin immediately and thoroughly with water. Remove contaminated clothing. Obtain medical attention if symptoms develop.

Eye contact : Wash immediately with copious amounts of water and seek medical attention.

Ingestion : Remove material from mouth. Drink one or two glasses of water (or milk) and obtain immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media : CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Protective equipment : No special measures required.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Protection of personnel : Not required.

Environmental precautions : Inform responsible authorities in case product reaches water or sewage system. Dilute with plenty of water.

Method of disposal : Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Dispose of the collected material according to the regulations.

SECTION 7 - HANDLING AND STORAGE

Handling (see also sections 8 and 15)

Information for safe handling : Use common rules for working with chemicals.

Information about protection against explosions and fires : No special measures required.

Storage :

Requirements for storage rooms and containers : According to local legislation.

Storage in one common storage facility : According to local legislation.

Further information about storage conditions : None.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems : No further data; see section 7.

Components with limit values that require monitoring at the workplace:

7647-01-0 hydrochloric acid (5-15%)

TLV (Europe)	Short-term value: 15 mg/m ³ , 10ppm Long-term value: 8 mg/m ³ , 5ppm
OES (Great Britain)	Short-term value: 8 mg/m ³ , 5ppm Long-term value: 2 mg/m ³ , 1ppm gas and aerosol mists; ILV

Additional information : The lists that were valid during the compilation were used as basis.

Personal Protection equipment :

General protective and hygienic measures :

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment : Personal protection is not normally required.

Protection of hands : Chemical-resistant protective gloves made of butyl or nitrile rubber (EN 374, category III). In consultation with the supplier of protective gloves a different type of similar quality may be chosen.

Eye protection: Safety glasses are not normally required. However, their use is recommended in those cases where handling the undiluted product involves a risk of splashing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information :

Form:	Viscous Liquid
Colour:	Dark Blue
Odour:	Slightly perfumed



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Change in condition :

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Flash point:	Not applicable
Spontaneous combustion:	Product is not self igniting
Danger of explosion:	Product is not explosive.
Density at 25°C :	1.01 - 1.04 g/cm ³
Solubility in / Miscibility with Water:	Fully miscible
pH-value (1% sol.) :	pH ≤ 2.0

SECTION 10 - STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided : No decomposition if used according to specifications.

Dangerous reactions : No dangerous reactions known.

Hazardous decomposition products : No dangerous decomposition products known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50 (oral) : Based on the toxicological classification the LD50 (oral) is estimated to be 200-2000 mg/kg. This value is of no practical significance due to the corrosive nature of the product.

Primary irritant effect:

skin contact : Causes severe burns.

eye contact : Causes severe or permanent damage.

inhalation : Severe irritant, may cause pulmonary oedema.

ingestion : Causes severe burns. Ingestion will lead to strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Additional toxicological information:

EC classification : Corrosive

SECTION 12 - ECOLOGICAL INFORMATION

Classification : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The classification of the product is due to the component(s) listed in section 2 with an environmental classification (R50 - R53)

Ecotoxicological effects :

Aquatic toxicity : Based on the environmental classification the toxicity for aquatic organisms (as defined in 67/548/EEC, Annex V) is estimated to be 10-100 mg/l.

General notes : Must not reach sewage water or drainage ditch undiluted or unneutralized . When used for its intended purpose this product should not cause adverse effects in the environment. The information in this section refers to the undiluted product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Product :

Recommendation : Dispose of observing official regulations.

European waste catalogue :

20 01 29 detergents containing dangerous substance.



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Uncleaned packagings :

Recommendation : Dispose of observing official regulations.

Recommended cleaning agent : Water, if necessary with cleaning agent.

SECTION 14 - TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)



ADR/RID Class : 8 Corrosive substances
Kemler Number : 80
UN-Number : 1789
Packaging Group : III
Label : 8
Proper Shipping Name : HYDROCHLORIC ACID SOLUTION

Maritime transport IMDG :



IMDG Class : 8
UN-Number : 1789
Label : 8
Packaging Group : III
EMS Number : F-A, S-B
Maritime Pollutant : No
Proper Shipping Name : HYDROCHLORIC ACID SOLUTION

Air transport ICAO-TI and IATA-DGR :



ICAO / IATA Class: 8
UN-Number : 1789
Label : 8
Packaging Group : III
Proper Shipping Name : HYDROCHLORIC ACID SOLUTION

Transport / Additional Information : Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15 - REGULATORY INFORMATION

Classification according to EC guidelines : The product has been classified and labeled in accordance with current EC Directives.



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Product Name : Crew[®] Toilet Bowl Cleaner

Symbol and hazard designation of product:



C, Corrosive

Risk phrases :

35 Causes severe burns.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Further indications on the label : Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

SECTION 16 - OTHER INFORMATION

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

Text of risk phrases associated with ingredients listed in section 3 :

22 Harmful if swallowed.

34 Causes burns.

37 Irritating to respiratory system.

38 Irritating to skin.

41 Risk of serious damage to eyes.

50 Very toxic to aquatic organisms.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing material safety data sheet:

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** In case of local regulation change or formulation change this MSDS may undergo revision before the stated revision date.*