Safety Data Sheet
WC REIN

Safety Data Sheet dated 15/1/2016, version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification

Trade name: WC REIN

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

Recommended use:

Descaling detergent for toilet bowl cleaning.

Uses advised against:

Do not use in combination with other products.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

SUTTER INDUSTRIES s.p.a. - Società con Unico Socio
15060 Borghetto Borbera (AL) Italia
Tel. +39 0143 631.1

Competent person responsible for the safety data sheet:

regulatory.affairs@sutter.it

1.4. Emergency telephone number

+39 0143 631.1

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
- Danger, Eye Dam. 1, Causes serious eye damage.
- Warning, STOT SE 3, May cause respiratory irritation.
- Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P280 Wear eye 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.
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.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH210 Only for professional use. Safety data sheet available on request.

Contents

BIS(2-HYDROXYETHYL)OLEYLAMINE
HYDROCHLORIC ACID

Product contents:
non-ionic surfactants < 5 %
The product also contains: Perfumes
Allergens:
Preservatives:
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.
3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:
>= 10% - < 12.5% HYDROCHLORIC ACID
REACH No.: 01-2119484862-27, Index number: 017-002-01-X, CAS: 7647-01-0, EC: 231-595-7
2.16/1 Met. Corr. 1 H290
3.2/1B Skin Corr. 1B H314
3.8/3 STOT SE 3 H335

>= 1% - < 3% BIS(2-HYDROXYETHYL)OLEYLAMINE
REACH No.: 01-2119510876-35, CAS: 25307-17-9, EC: 246-807-3
3.1/4/Oral Acute Tox. 4 H302
4.1/C1 Aquatic Chronic 1 H410 M=10.
3.2/1A Skin Corr. 1A H314
4.1/A1 Aquatic Acute 1 H400 M=10.

>= 0.01% - < 0.1% 4-TERT-BUTYLCYCLOHEXYLACETATE
REACH No.: 01-2119976286-24, CAS: 32210-23-4, EC: 250-954-9
4.1/C2 Aquatic Chronic 2 H411
3.4.2/1 Skin Sens. 1 H317

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Do NOT induce vomiting.
In case of Inhalation:
In case of inhalation, consult a doctor immediately and show him packing or label.
4.2. Most important symptoms and effects, both acute and delayed

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water.
Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Use localized ventilation system.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in area dedicated to acid products, keep away from alkalys and chlorine based oxidants.
Store away from sunlight.
Keep away from food, drink and feed.

Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
HYDROCHLORIC ACID - CAS: 7647-01-0
EU - LTE(8h): 8 mg/m3, 5 ppm - STE: 15 mg/m3, 10 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - STE: C 2 ppm - Notes: A4 - URT irr
4-TERT-BUTYLCYCLOHEXYLACETATE - CAS: 32210-23-4
ACGIH - LTE(8h): 713 mg/m3 - STE(15min): 950 mg/m3 - Notes: TLV
DNEL Exposure Limit Values
HYDROCHLORIC ACID - CAS: 7647-01-0
Worker Industry: 8 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Industry: 15 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
BIS(2-HYDROXYETHYL)OLEYLAMINE - CAS: 25307-17-9
Worker Industry: 0.25 mg/kg - Consumer: 0.179 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 1.76 mg/m3 - Consumer: 0.621 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 0.179 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
PNEC Exposure Limit Values
HYDROCHLORIC ACID - CAS: 7647-01-0
Target: Marine water - Value: 35 mg/l
Target: Fresh Water - Value: 36 mg/l
Target: Microorganisms in sewage treatments - Value: 36 mg/l
BIS(2-HYDROXYETHYL)OLEYLAMINE - CAS: 25307-17-9
Target: Marine water - Value: 0.000021 mg/l
Target: Microorganisms in sewage treatments - Value: 1.5 mg/l
Target: Marine water sediments - Value: 0.1692 mg/kg
Target: Soil (agricultural) - Value: 5 mg/kg

8.2. Exposure controls
Eye protection:
Use close fitting safety goggles, don't use eye lens.
Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory protection:
Use respiratory protection where ventilation is insufficient or exposure is prolonged.
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Clear liquid, green	--	--
Odour:	Floral	--	--
Odour threshold:	Evident	--	--
pH:	< 1,0	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	>= 100°C	--	--
Flash point:	> 65 ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	1,060 +/- 0, 050 g/ml	--	--
Solubility in water:	Total	--	--
Solubility in oil:	Partial	--	--
Partition coefficient (n-octanol/water):	< 1000	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	175 +/- 50 cP	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	Not Relevant	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the mixture:
N.A.
Toxicological information of the main substances found in the mixture:
HYDROCHLORIC ACID - CAS: 7647-01-0
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat = 45.6 mg/m3
BIS(2-HYDROXYETHYL)OLEYLAMINE - CAS: 25307-17-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg
4-TERT-BUTYLCYCLOHEXYLACETATE - CAS: 32210-23-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rabbit = 3200 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 17600 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 390 ppm - Duration: 4h

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:
a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

HYDROCHLORIC ACID - CAS: 7647-01-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 20.5 mg/l - Duration h: 96 - Notes: Lepomis macrochirus - pH 3,25-3,50

Endpoint: EC50 - Species: Algae = 0.73 mg/l - Duration h: 72 - Notes: Chlorella vulgaris - pH 4,7

Endpoint: EC50 - Species: Daphnia = 0.45 mg/l - Duration h: 48 - Notes: Daphnia magna - pH 4,9

BIS(2-HYDROXYETHYL)OLEYLAMINE - CAS: 25307-17-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 0.1 mg/l - Duration h: 96 - Notes: Danio rerio

Endpoint: EC50 - Species: Daphnia > 0.01 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae > 0.01 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

4-TERT-BUTYLCYCLOHEXYLACETATE - CAS: 32210-23-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 17 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 24 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 320 mg/l - Duration h: 96 - Notes: Scenedesmus subspicatus

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

ADR-UN Number:	1760
IATA-UN Number:	1760
IMDG-UN Number:	1760

14.2. UN proper shipping name

ADR-Shipping Name:	CORROSIVE LIQUID, N.O.S. (hydrochloric acid, bis(2-hydroxyethyl)oleylamine)
ADR-Shipping Name:	Corrosive liquid, n.o.s. (contains Hydrochloric Acid)
IATA-Shipping Name:	CORROSIVE LIQUID, N.O.S. (hydrochloric acid, bis(2-hydroxyethyl)oleylamine)

IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (hydrochloric acid, bis(2-hydroxyethyl)oleylamine)

14.3. Transport hazard class(es)

ADR-Class: 8
ADR-Label: 8
ADR - Hazard identification number: 80
IATA-Class: 8
IATA-Label: 8
IMDG-Class: 8
IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards

ADR-Enviromental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
Most important toxic component: BIS(2-HYDROXYETHYL)OLEYLAMINE

14.6. Special precautions for user

Rail (RID): 8
ADR-Subsidiary risks: -
ADR-S.P.: 274
ADR-Tunnel Restriction Code: 3 (E)
IATA-Passenger Aircraft: 852
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 856
IATA-S.P.: A3 A803
IATA-ERG: 8L
IMDG-Page: 87
IMDG-EmS: F-A , S-B
IMDG-Subsidiary risks: -
IMDG-MFAG: ed. 2000
IMDG-Storage category: Category A
IMDG-Storage notes: Clear of living quarters.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E2

15.2. Chemical safety assessment
No

SECTION 16: Other information

Full text of phrases referred to in Section 3:
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H302 Harmful if swallowed.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 6: Accidental release measures
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport

	Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.