FRATELLI RICCI
FABBRICA PRODOTTI CHIMICI srl

RI-MEC 100/PCF

Safety Data Sheet dated 25/5/2017, version 1

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

1.1. Product identifier
Mixture identification:
Trade name: RI-MEC 100/PCF
1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Plasma water
1.3. Details of the supplier of the safety data sheet
Company:
FRATELLI RICCI S.r.l. Fabbrica Prodotti Chimici
Via A. Colombo, 128
21055 Gorla Minore (VA) ITALY
Tel. +39 0331 368811 Fax +39 0331 365759
Competent person responsible for the safety data sheet:
SDS@fratelliricci.com
1.4. Emergency telephone number
FRATELLI RICCI S.r.l. Fabbrica Prodotti Chimici Tel. 0331 368811 (office hours)
Regional Medicines and Poisons Information Centre NI Pharmacy Department Royal Hospital Suite Grosvenor Road Belfast +44 28 90 63 2032
National Poisons Information Service (Birmingham Unit) City Hospital Dudley Rd Birmingham +44 121 507 4123
National Poisons Information Service Edinburgh Scottish Poisons Information Bureau Royal Infirmary 51 Little France Crescent Edinburgh +44 131 242 1383
National Poisons Information Service (Newcastle Unit) Wolfson Unit Claremont Place Newcastle Upon Tyne +44 191 2606182/+44 191 2606180
National Poisons Information Service (Cardiff) University Hospital Llandough Penlan Road Penarth +44 292 071 55 54
List of World poison centres available at: http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):
Warning, Skin Irrit. 2, Causes skin irritation.
Danger, Eye Dam. 1, Causes serious eye damage.
Adverse physicochemical, human health and environmental effects:
No other hazards
2.2. Label elements
Hazard pictograms:

Danger
Hazard statements:
H315 Causes skin irritation.
H318 Causes serious eye damage.
Precautionary statements:
P264 Wash hands thoroughly after handling the product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
Special Provisions:
None
Contents:
Isotridecanol, ethoxylated
2,2'-iminodiethanol;
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

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RI-MEC 100/PCF

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Chemical composition: Mixture based of glycol in aqueous solution

Hazardous components within the meaning of the CLP regulation and related classification:

5% - 15% Isotridecanol, ethoxylated

CAS: 69011-36-5, EC: 931-138-8

3.1/4/Oral Acute Tox. 4 H302

3.3/1 Eye Dam. 1 H318

< 5% 2,2'-iminodiethanol

REACH No.: 01-2119488930-28-000, Index number: 603-071-00-1, CAS: 111-42-2, EC: 203-868-0

3.1/4/Oral Acute Tox. 4 H302

4.1/C3 Aquatic Chronic 3 H412

3.2/2 Skin Irrit. 2 H315

3.3/1 Eye Dam. 1 H318

3.9/2 STOT RE 2 H373

< 1% sodium hydroxide

Index number: 011-002-00-6, CAS: 1310-73-2, EC: 215-185-5

2.16/1 Met. Corr. 1 H290

3.2/1A Skin Corr. 1A H314

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

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 under any circumstances induce vomiting.

OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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.
Remove persons to safety.
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.
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

Storage at a temperature between 5°C and 35°C
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

2,2'-iminodiethanol; - CAS: 111-42-2
TLV TWA - 2 mg/m3 / 0.46 ppm
sodium hydroxide; - CAS: 1310-73-2
TLV STEL - mg/m3 2 C

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

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:

Not needed for normal use.

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:	limpid liquid green/blue	--	--
Odour:	charatteristic	--	--
Odour threshold:	N.A.	--	--

pH:	(aqueous solution 5%) 10 approx	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	100°C	--	--
Flash point:	> 100°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:	1,05 Kg/m3 approx	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/ water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
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	N.A.	--	--

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:
Isotridecanol, ethoxylated - CAS: 69011-36-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 300-2000 mg/kg - Source: Test values / own bibliographic values
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source:Test values / own bibliographic values
2,2'-iminodiethanol; - CAS: 111-42-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1600 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 0.2 mg/l - Duration: 8h
sodium hydroxide; - CAS: 1310-73-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1350 mg/kg
Test: LD50 - Route: Skin - Species: Rat = 1350 mg/kg

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.
Isotridecanol, ethoxylated - CAS: 69011-36-5
a) Aquatic acute toxicity:
Endpoint: CL50 - Species: Cyprinus carpio > 1-10 mg/l - Duration h: 96
Endpoint: CE50 - Species: Daphnia > 1-10 mg/l - Duration h: 48
Endpoint: CE50 - Species: Desmodesmus subspicatus > 1-10 mg/l - Duration h: 72
2,2'-iminodiethanol; - CAS: 111-42-2
a) Aquatic acute toxicity:
Endpoint: CL50 - Species: Pimephales promelas = 1460 mg/l - Duration h: 96
Endpoint: CE50 - Species: Daphnia magna = 55 mg/l - Duration h: 48
Endpoint: CE50 - Species: Pseudokirchneriella subcapitata = 2.2 mg/l - Duration h: 96
12.2. Persistence and degradability
2,2'-iminodiethanol; - CAS: 111-42-2
Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: 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
Not classified as dangerous in the meaning of transport regulations.
14.2. UN proper shipping name
N.A.
14.3. Transport hazard class(es)

N.A.

14.4. Packing group
N.A.

14.5. Environmental hazards
N.A.

14.6. Special precautions for user
N.A.

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. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009, Regulation (CE) n.453/2010 (Annex I), Regulation n.286/2011 (ATP 2 CLP)
Regulation (EU) 2015/830
Where applicable, refer to the following regulatory provisions :
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)
Directive 82/501/EEC ('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):
N.A.

15.2. Chemical safety assessment
No

SECTION 16: Other information

Text of phrases referred to under heading 3:
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

This safety data sheet has been completely updated in compliance to Regulation 2015/830.
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.

ACGIH:	
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.

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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.