



Safety Data Sheet

IMW4411 - Impregnante all'acqua TEAK

Safety Data Sheet dated 23/11/2015, version 5

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

- 1.1. Product identifier
Mixture identification:
Trade name: Impregnante all'acqua TEAK
Trade code: IMW4411
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Surface coating

- 1.3. Details of the supplier of the safety data sheet
Company:

Sirca S.p.A.
Address:
Viale Roma, 85
35010 S.Dono di Massanzago (PD) - ITALY
Tel. +39 0499322311
Competent person responsible for the safety data sheet:
safety@sirca.it
- 1.4. Emergency telephone number

Sirca S.p.A. +39 049 9322311 (08.00 - 17.00) From Monday to Friday

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.
Adverse physicochemical, human health and environmental effects:
No other hazards known
- 2.2. Label elements
Symbols:
None
Hazard statements:
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with applicable regulations.
- Special Provisions:
None
- Contents:
3-Iodo-2-propynylbutylcarbamate: May produce an allergic reaction.
5-chloro-2-methyl-3(2H)-isothiazolone with 2-methyl-3(2H)-isothiazolone: May produce an allergic reaction.
- Special provisions according to Annex XVII of REACH and subsequent amendments:
None
- 2.3. Other hazards
- Other Hazards:
No other hazards known

SECTION 3: Composition/information on ingredients

- 3.1. Substances
N.A.
- 3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:
>= 2.5% - < 3% alcohols C9-C11ethoxylate, propoxylate (polymers)
CAS: Reserved
⚠ 3.1/4/Oral Acute Tox. 4 H302
⚠ 3.3/2 Eye Irrit. 2 H319
- = 0.25% - < 0.5% (2-Methoxymethylethoxy)propanol
REACH No.: 01-2119450011-60-xxxx, CAS: 34590-94-8, EC: 252-104-2
Substance with a Union workplace exposure limit.
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
- = 0.25% - < 0.5% 3-Iodo-2-propynylbutylcarbamate

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CAS: 55406-53-6, EC: 259-627-5

- ⚠ 3.1/4/Inhal Acute Tox. 4 H332
- ⚠ 4.1/C1 Aquatic Chronic 1 H410 M=1.
- ⚠ 3.8/3 STOT SE 3 H335
- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.3/1 Eye Dam. 1 H318
- ⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317
- ⚠ 4.1/A1 Aquatic Acute 1 H400 M=10.

>= 0.0015% - < 0.05% ethanediol; ethylene glycol

REACH No.: 01-2119456816-28-xxxx, Index number: 603-027-00-1, CAS: 107-21-1, EC: 203-473-3

- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.9/2 STOT RE 2 H373

>= 0.0015% - < 0.05% formaldehyde

REACH No.: 01-2119488953-20-xxxx, Index number: 605-001-00-5, CAS: 50-00-0, EC: 200-001-8

- ⚠ 3.6/2 Carc. 2 H351
- ⚠ 3.2/1B Skin Corr. 1B H314
- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 3.1/3/Oral Acute Tox. 3 H301
- ⚠ 3.1/3/Dermal Acute Tox. 3 H311
- ⚠ 3.1/3/Inhal Acute Tox. 3 H331

< 0.0015% 5-chloro-2-methyl-3(2H)-isothiazolone with 2-methyl-3(2H)-isothiazolone

Index number: 613-167-00-5, CAS: 55965-84-9

- ⚠ 3.1/3/Oral Acute Tox. 3 H301
- ⚠ 3.1/3/Dermal Acute Tox. 3 H311
- ⚠ 3.1/3/Inhal Acute Tox. 3 H331
- ⚠ 3.2/1B Skin Corr. 1B H314
- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 4.1/A1 Aquatic Acute 1 H400
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

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 ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Induce vomiting only on doctor's advice

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

Contact a poisons centre

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).

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

Combustion may liberate toxic or very toxic gases. Do not breathe fumes.

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 persons to safety.

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- 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
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
After the product has been recovered, rinse the area and materials involved with 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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
Do not smoke while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
Keep from freezing
- 7.3. Specific end use(s)
No further recommendations. Refer to point 1.2

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
(2-Methoxymethylethoxy)propanol - CAS: 34590-94-8
(OEL (IT)) - LTE(8h): 308 mg/m³, 50 ppm - Behaviour: Binding - Notes: pelle
EU - LTE(8h): 308 mg/m³, 50 ppm - Notes: Skin
ACGIH - LTE: 606 mg/m³
- ethanediol; ethylene glycol - CAS: 107-21-1
(OEL (IT)) - LTE(8h): 52 mg/m³, 20 ppm - STE: 104 mg/m³, 40 ppm - Behaviour: Binding - Notes: pelle
EU - LTE(8h): 52 mg/m³, 20 ppm - STE: 104 mg/m³, 40 ppm - Notes: Skin
ACGIH - STE: C 100 mg/m³, C 39.39 ppm - Notes: C - A4
- formaldehyde - CAS: 50-00-0
TLV TWA - A2 SEN
TLV STEL - C 0,3 ppm - C 0,37 mg/m³, A2 SEN
- DNEL Exposure Limit Values
ethanediol; ethylene glycol - CAS: 107-21-1
Worker Industry: 106 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 35 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 53 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
- formaldehyde - CAS: 50-00-0
Worker Industry: 0.8 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 240 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 0.037 mg/cm² - Exposure: Human Dermal - Frequency: Long Term, local effects
Worker Industry: 0.4 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 102 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 3.2 mg/cm² - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 4.1 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 0.012 mg/cm² - Exposure: Human Dermal - Frequency: Long Term, local effects
Consumer: 0.1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
- PNEC Exposure Limit Values
ethanediol; ethylene glycol - CAS: 107-21-1
Target: Fresh Water - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l
Target: Freshwater sediments - Value: 20.9 mg/kg
Target: Microorganisms in sewage treatments - Value: 20.9 mg/l
- formaldehyde - CAS: 50-00-0
Target: Fresh Water - Value: 0.47 mg/l
Target: Marine water - Value: 0.47 mg/l
Target: Freshwater sediments - Value: 2.44 mg/kg
Target: Marine water sediments - Value: 2.44 mg/kg

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Target: Soil (agricultural) - Value: 0.21 mg/kg
 Target: Microorganisms in sewage treatments - Value: 0.19 mg/l
 Target: occasional emission - Value: 4.7 mg/l

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

Not needed for normal use. Work, in any case, in accordance with good practices of industrial hygiene.

Protection for hands:

Not needed for normal use. Work, in any case, in accordance with good practices of industrial hygiene.

Respiratory protection:

Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.

Thermal Hazards:

None known

Environmental exposure controls:

None known

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	liquid
Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	< 1°C
Initial boiling point and boiling range:	> 55°C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	other (≥ 60°C ; > 140°F)
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.0100 Kg/l a 20°C
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250°C
Decomposition temperature:	N.A.
Viscosity (typical value):	48.00 " Din cup # 2
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

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

No dangerous reaction is stored and used appropriately.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

vapours potentially dangerous to health may be released.

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:

alcohols C9-C11ethoxylate, propoxylate (polymers) - CAS: Reserved

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 500 mg/kg

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

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(2-Methoxymethylethoxy)propanol - CAS: 34590-94-8

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 275 Ppm - Duration: 7h

Test: LC50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 19020 mg/kg

3-Iodo-2-propynylbutylcarbamate - CAS: 55406-53-6

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 1470 mg/kg

Test: LD50 - Route: Oral - Species: Rat Female = 1056 mg/kg

Test: LD50 - Route: Oral - Species: Rat male = 1795 mg/kg

b) skin corrosion/irritation:

Test: Eye Irritant - Species: Rabbit Yes

Test: Skin Irritant - Species: Rabbit Yes

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Cavia porcellus Yes

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Generic Bacteria Negative

ethanediol; ethylene glycol - CAS: 107-21-1

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 2.5 mg/l - Duration: 6h

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LD50 - Route: Oral - Species: Rat 7712 mg/kg

formaldehyde - CAS: 50-00-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 100 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 270 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 0.31 mg/l - Duration: 4h

5-chloro-2-methyl-3(2H)-isothiazolone with 2-methyl-3(2H)-isothiazolone - CAS: 55965-84-9

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 0.31 mg/l - Duration: 4h - Notes: aerosol

Test: LD50 - Route: Skin - Species: Rabbit = 660 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 457 mg/kg

b) skin corrosion/irritation:

Test: Skin Corrosive - Species: Rabbit Yes

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Yes

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Cavia porcellus Yes

Test: Inhalation Sensitization - Route: Inhalation - Species: Cavia porcellus Yes

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.

alcohols C9-C11ethoxylate, propoxylate (polymers) - CAS: Reserved

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 17.7 mg/l - Duration h: 48 - Notes: OECD - linea guida 202, parte1, statico

(2-Methoxymethylethoxy)propanol - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 969 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish > 10000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 1919 mg/l - Duration h: 48

3-Iodo-2-propynylbutylcarbamate - CAS: 55406-53-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 0.16 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.022 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 0.067 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae 0.0046 mg/l - Duration h: 72

ethanediol; ethylene glycol - CAS: 107-21-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: fresh water

Endpoint: LC50 - Species: Fish = 72860 mg/l - Duration h: 96 - Notes: fresh water

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- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish = 1530 mg/l - Duration h: 168 - Notes: fresh water formaldehyde - CAS: 50-00-0
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 6.7 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 5.8 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 3.48 mg/l - Duration h: 72
5-chloro-2-methyl-3(2H)-isothiazolone with 2-methyl-3(2H)-isothiazolone - CAS: 55965-84-9
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 0.19 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 0.16 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 0.027 mg/l - Duration h: 72
- 12.2. Persistence and degradability
None known
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 known

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.
Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

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
No

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)
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 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).
Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

1999/13/EC (VOC directive)
Directive 1999/13/CE

Total Volatile Organic Compounds (typical value):	4 %	
Total Volatile Organic Carbon (typical value):		1.82 %
Total amount of water	82.1 - 85.3 %	
Total solids content:	12 - 12.4 %	



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N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H351 Suspected of causing cancer.

H314 Causes severe skin burns and eye damage.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients

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 - Eighth Edition - Van Nostrand Reinold

ACGIH - Threshold Limit Values - 2004 edition

RESTRICTED TO PROFESSIONAL USERS

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.

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.
N.A.:	N.A.
N.D.:	