

Safety Data Sheet



LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

Safety Data Sheet dated 5/24/2019, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CATALIZZATORE per prod. all'acqua - Catalyst for WB products

Other means of identification:

Trade code: LCW015

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial and professional uses (SU3 - SU22)

Catalyst for paints and varnishes

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20010 BAREGGIO (MI) - Tel. +39 02 90304.1

Importer:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel:+1-860-529-7704

Distributor:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel:+1-860-529-7704

Competent person responsible for the safety data sheet:

msds@sivam.it

Emergency phone number

NUOVA S.I.V.A.M. SpA - Tel. +39 02 90304.1 (Monday - Friday 8.00 - 15.00)

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39 02 66101029 (24 h)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Warning, Flam. Liq. 4, Combustible liquid.

⚠ Warning, Acute Tox. 4, Harmful if inhaled.

⚠ Warning, Skin Irrit. 2, Causes skin irritation.

⚠ Danger, Eye Dam. 1, Causes serious eye damage.

⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.

⚠ Warning, STOT SE 3, May cause respiratory irritation.

Aquatic Acute 3, Harmful to aquatic life.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H227 Combustible liquid.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... Thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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/doctor/...
 P312 Call a POISON CENTER/doctor/... if you feel unwell.
 P321 Specific treatment (see ... On this label).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire, use alcohol resistant foam, dry chemical, CO₂, water spray. Do not use water jet.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:



HMIS rating:

HEALTH	/ 2
FLAMMABILITY	2
PHYSICAL HAZARD	1
PERSONAL PROTECTION	G

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 40% - < 50%	HDI oligomers, isocyanurate	CAS: 28182-81-2 EC: 931-274-8 REACH No.: 01-2119485796-17	⚠ A.1/4/Inhal Acute Tox. 4 H332 ⚠ A.4.2/1 Skin Sens. 1 H317 ⚠ A.8/3 STOT SE 3 H335
>= 20% - < 25%	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	CAS: 53880-05-0 EC: 931-312-3 REACH No.: 01-2119488734-	⚠ A.4.2/1 Skin Sens. 1 H317 ⚠ A.8/3 STOT SE 3 H335

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

		24		
>= 7% - < 10%	Polyoxyethylene tridecyl ether phosphate	CAS: EC:	9046-01-9 618-558-4	⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.3/1 Eye Dam. 1 H318 ⚠ US-HAE/C2 Aquatic Chronic 2 H411
>= 1% - < 3%	Cyclohexyldimethylamine	CAS: EC: REACH No.:	98-94-2 202-715-5 01-2119533030-60	⚠ B.6/3 Flam. Liq. 3 H226 ⚠ US-HAE/A1 Aquatic Acute 1 H400 ⚠ A.1/3/Dermal Acute Tox. 3 H311 ⚠ A.1/3/Inhal Acute Tox. 3 H331 ⚠ A.1/3/Oral Acute Tox. 3 H301 ⚠ A.2/1B Skin Corr. 1B H314
>= 0.1% - < 0.25%	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone diisocyanate	Index number: CAS: EC: REACH No.:	615-008-00-5 4098-71-9 223-861-6 01-2119490408-31	⚠ A.3/2A Eye Irrit. 2A H319 ⚠ A.8/3 STOT SE 3 H335 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.4.1/1 Resp. Sens. 1 H334 ⚠ A.4.2/1 Skin Sens. 1 H317 ⚠ US-HAE/C2 Aquatic Chronic 2 H411 ⚠ A.1/2/Inhal Acute Tox. 2 H330
>= 0.1% - < 0.25%	hexamethylene-di-isocyanate	Index number: CAS: EC: REACH No.:	615-011-00-1 822-06-0 212-485-8 01-2119457571-37	⚠ A.1/1/Inhal Acute Tox. 1 H330 ⚠ A.1/4/Oral Acute Tox. 4 H302 ⚠ A.3/2A Eye Irrit. 2A H319 ⚠ A.8/3 STOT SE 3 H335 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.4.1/1 Resp. Sens. 1 H334 ⚠ A.4.2/1 Skin Sens. 1 H317

4. FIRST-AID MEASURES

Description of necessary 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 ophthalmologist immediately.
 Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.
 In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

None

Indication of 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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

In case of fire, use alcohol resistant foam, dry chemical, CO₂, water spray. Do not use water jet.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

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

Hazardous combustion products:

None

Explosive properties:

N.D. in volume

Oxidizing properties:

N.D.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

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

Methods and materials for containment and cleaning up

- Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Do not use on extensive surface areas in premises where there are occupants.
- 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.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

- Always keep in a well ventilated place.
- Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
- Keep away from food, drink and feed.
- Incompatible materials:
 - None in particular.
- Instructions as regards storage premises:
 - Cool and adequately ventilated.
- Storage temperature:
 - Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

- HDI oligomers, isocyanurate - CAS: 28182-81-2
 - EU - STEL: 1 mg/m³
- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate - CAS: 4098-71-9
 - ACGIH - TWA(8h): 0.005 ppm - Notes: Resp sens
- hexamethylene-di-isocyanate - CAS: 822-06-0
 - ACGIH - TWA(8h): 0.005 ppm - Notes: URT irr, resp sens

DNEL Exposure Limit Values

- HDI oligomers, isocyanurate - CAS: 28182-81-2
 - Worker Industry: 0.5 mg/m³ - Worker Professional: 0.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
 - Worker Industry: 1 mg/m³ - Worker Professional: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
- hexamethylene-di-isocyanate - CAS: 822-06-0
 - Worker Industry: 0.07 mg/m³ - Worker Professional: 0.07 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 - Worker Industry: 0.07 mg/m³ - Worker Professional: 0.07 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 - Worker Industry: 0.035 mg/m³ - Worker Professional: 0.035 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 - Worker Industry: 0.035 mg/m³ - Worker Professional: 0.035 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

- HDI oligomers, isocyanurate - CAS: 28182-81-2
 - Target: Fresh Water - Value: 0.127 mg/l
 - Target: Marine water - Value: 0.0127 mg/l
 - Target: Intermittent emission - Value: 1.27 mg/l
 - Target: Microorganisms in sewage treatments - Value: 38.3 mg/l
- hexamethylene-di-isocyanate - CAS: 822-06-0
 - Target: Fresh Water - Value: 0.0774 mg/l
 - Target: Marine water - Value: 0.00774 mg/l
 - Target: Freshwater sediments - Value: 0.01334 mg/kg
 - Target: Marine water sediments - Value: 0.001334 mg/kg

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

Target: Intermittent emission - Value: 0.774 mg/l
 Target: Microorganisms in sewage treatments - Value: 8.42 mg/l
 Target: Soil (agricultural) - Value: 0.0026 mg/kg

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Eye glasses with side protection. (EN166)

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. (EN374)

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	colourless fluid
Odour:	typical
Odour threshold:	N.D.
pH:	N.A.
Melting point / freezing point:	N.D. °C
Initial boiling point and boiling range:	N.D. °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.D.
Vapour density:	> 1
Flash point:	76 °C
Evaporation rate:	N.D.
Vapour pressure:	N.D. (20 °C)
Relative density:	1.080
Solubility in water:	partial, reagisce
Solubility in oil:	partial
Partition coefficient (n-octanol/water):	N.D.
Auto-ignition temperature:	N.D. °C
Decomposition temperature:	N.D. °C
Viscosity:	N.D.
Miscibility:	N.D.
Fat Solubility:	N.D.
Conductivity:	N.D.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth, alloys in powder or vapours) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, and powerful oxidising agents.

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

CATALIZZATORE per prod. all'acqua - Catalyst for WB products

a) acute toxicity

The product is classified: Acute Tox. 4 H332

b) skin corrosion/irritation

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

- The product is classified: Skin Irrit. 2 H315
- c) serious eye damage/irritation
 - The product is classified: Eye Dam. 1 H318
- d) respiratory or skin sensitisation
 - The product is classified: Skin Sens. 1 H317
- e) germ cell mutagenicity
 - Not classified
 - No data available for the product
- f) carcinogenicity
 - Not classified
 - No data available for the product
- g) reproductive toxicity
 - Not classified
 - No data available for the product
- h) STOT-single exposure
 - The product is classified: STOT SE 3 H335
- i) STOT-repeated exposure
 - Not classified
 - No data available for the product
- j) aspiration hazard
 - Not classified
 - No data available for the product

Toxicological information of the main substances found in the product:

HDI oligomers, isocyanurate - CAS: 28182-81-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

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

Test: LC50 - Route: Inhalation Mist - Species: Rat = 400 mg/m³ - Duration: 4h - Source: OCSE 403

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers - CAS: 53880-05-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 14000 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat > 5.01 mg/l - Duration: 4h

Cyclohexyldimethylamine - CAS: 98-94-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 272 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 370 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 4.45 mg/l - Duration: 4h

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate - CAS: 4098-71-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4825 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat = 0.123 mg/l - Duration: 4h

hexamethylene-di-isocyanate - CAS: 822-06-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 746 mg/kg

Test: LC50 - Route: Skin - Species: Rabbit = 570 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat = 0.124 mg/l - Duration: 4h - Source: OCSE 403

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

CATALIZZATORE per prod. all'acqua - Catalyst for WB products

The product is classified: Aquatic Acute 3 - H402; Aquatic Chronic 3 - H412

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers - CAS: 53880-05-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 3.36 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 3.1 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish > 1.51 mg/l - Duration h: 96

Polyoxyethylene tridecyl ether phosphate - CAS: 9046-01-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 10 mg/l - Duration h: 96

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

Cyclohexyldimethylamine - CAS: 98-94-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 75 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 2 mg/l - Duration h: 72

hexamethylene-di-isocyanate - CAS: 822-06-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 22 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 89.1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 77.4 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 11.7 mg/l - Duration h: 72

Persistence and degradability

HDI oligomers, isocyanurate - CAS: 28182-81-2

Biodegradability: Non-readily biodegradable

hexamethylene-di-isocyanate - CAS: 822-06-0

Biodegradability: Non-readily biodegradable - Test: Biochemical oxygen demand - Duration h: 28 days - %: 42

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal 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.

14. TRANSPORT INFORMATION

UN number

Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group

N.A.

Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

N.A.

Special precautions

N.A.

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

HDI oligomers, isocyanurate is listed in TSCA Section 8b

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers is listed in TSCA Section 8b

Polyoxyethylene tridecyl ether phosphate is listed in TSCA Section 8b

Cyclohexyldimethylamine is listed in TSCA Section 8b

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR

hexamethylene-di-isocyanate is listed in TSCA Section 8b, Section 8d HSDR.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate.

Section 304 – Hazardous substances: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate, hexamethylene-di-isocyanate.

Section 313 – Toxic chemical list: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate, hexamethylene-di-isocyanate.

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
Substance(s) listed under CERCLA: hexamethylene-di-isocyanate - Reportable quantity: 100 pounds.
Reportable quantity for mixture: 41666.66667 pounds.

CAA - Clean Air Act

CAA listed substances:

hexamethylene-di-isocyanate is listed in CAA Section 112(b) - HAP.

CWA - Clean Water Act

CWA listed substances:

None.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate

hexamethylene-di-isocyanate.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Cyclohexyldimethylamine

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate

hexamethylene-di-isocyanate.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate.

Volatile Organic compounds - VOCs = 27.52 %

Volatile Organic compounds - VOCs = 297.22 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.14

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

H400 Very toxic to aquatic life.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H330 Fatal if inhaled.

H302 Harmful if swallowed.

Safety Data Sheet dated 5/24/2019, version 1

Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet 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.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

Safety Data Sheet

LCW015 CATALIZZATORE per prod. all'acqua - Catalyst for WB products

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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average