



# SAFETY DATA SHEET

## COVER NANO HYDROGLASS

Issued on 01/31/2015 - Rel. # 1 on 01/31/2015

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In conformity to Regulation (EU) 2015/830

### SECTION1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product code : COVER NANO HYDROGLASS

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

Nanotechnology product for the protection of the glass.

Sectors of use: Private households (= general public = consumers)[SU21], Professional use[SU22]

Uses advised against: Do not use for purposes other than those listed

#### 1.3. Details of the supplier of the safety data sheet

COVERNANOTECH - COVERGROUP

Via Toscanini, 12 · 20010 Arluno (MI)

Tel. +39 02 9015236 - Mobile +39 328 0570642

www.covergroupitaly.com

email: info@covergroupitaly.com - info@coverplast.eu

#### 1.4. Emergency telephone number

Centro Antiveleni di Pavia: +39 0382 24444 (CAV IRCCS Fondazione Maugeri, Pavia, Italy)

Centro Antiveleni di Firenze: +39 055 7947819 (CAV Ospedale Careggi, Firenze, Italy)

Centro Antiveleni di Roma: +39 06 3054343 (CAV Policlinico Gemelli, Roma, Italy)

Centro Antiveleni di Roma: +39 06 49978000 (CAV Policlinico Umberto I, Roma, Italy)

Centro Antiveleni di Napoli: +39 081 7472870 (CAV Ospedale Cardarelli, Napoli, Italy)

IPCS: [http://www.who.int/gho/phe/chemical\\_safety/poisons\\_centres/en/index.html](http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/index.html)

### SECTION2. Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS02, GHS07

Hazard Class and Category Code(s):

Flam. Liq. 2, Eye Irrit. 2

Hazard statement Code(s):

H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

The product easy inflames if subordinate to an ignition source.

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):





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GHS02, GHS07 - Danger

Hazard statement Code(s):

H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

Response

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.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P370+P378 - In case of fire: Use CO<sub>2</sub> or foam to extinguish.

Storage

P403+P235 - Store in a well-ventilated place. Keep cool.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Packaging to be fitted with a tactile warning

Content of VOC ready to use condition: 99,40 %

### 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

## SECTION3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Identificativi
ETHYL ALCOHOL	> 75 <= 100%	Flam. Liq. 2, H225; Eye Irrit. 2, H319	CE 603-002-00-5 CAS 64-17-5 EINECS 200-578-6 REACH

## SECTION4. First aid measures



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### 4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

In case of contact with skin, wash immediately with water.

Warning: This product is toxic to skin contact. Consult a physician.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Ingestion:

Rinse mouth with water of the subject. Consult a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

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

If eye irritation persists: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

## SECTION5. Firefighting measures

### 5.1. Extinguishing media

Advised extinguishing agents:

In the case of fire use: water spray or CO2.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

### 5.2. Special hazards arising from the substance or mixture

No data available.

### 5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

## SECTION6. Accidental release measures



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### 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear gloves and protective clothing

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

### 6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.

Discharge the remains in compliance with the regulations

### 6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash the area and materials involved

6.3.3 Other information:

None in particular.

### 6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

Do not smoke at work

At work do not eat or drink.

Wear protective gloves/protective clothing/eye protection/face protection.

See also paragraph 8 below.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

Keep containers tightly closed.

Always store in well ventilated areas.

Never close the container tightly, leave a chance to vent

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.



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### 7.3. Specific end use(s)

Private households (= general public = consumers):  
Handle in a well ventilated area.

Public domain (administration, education, entertainment, services, craftsmen):  
Follow the rules of good hygiene in the workplace.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Related to contained substances:

ETHYL ALCOHOL:

TLV-TWA: 1000 ppm A4 (not classifiable as a human carcinogen); (ACGIH 2004).

TLV-TWA: 1920mg/m<sup>3</sup>, 1000ppm (Britain EH40).

TLV-TWA: 1900mg/m<sup>3</sup>, 1000ppm (France VL).

TLV-STEL: 9500mg/m<sup>3</sup>, 1500ppm (France VL).

MAK: 960 ppm 500 mg/m peak limitation Category: II (2); Cancerogenicity class: 5; Risk group for pregnancy: C; Group mutagen to germ cells: 5; (DFG 2004).

- Substance: ETHYL ALCOHOL

DNEL

Systemic effects Long term Workers inhalation = 950 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 343 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 114 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 206 (mg/kg bw/day)

Local effects Short term Workers inhalation = 1900 (mg/m<sup>3</sup>)

Local effects Short term Consumers inhalation = 950 (mg/m<sup>3</sup>)

PNEC

Sweet water = 0,96 (mg/l)

sediment Sweet water = 3,6 (mg/kg/sediment)

Sea water = 0,79 (mg/l)

sediment Sea water = 2,9 (mg/kg/sediment)

intermittent emissions = 2,75 (mg/l)

STP = 580 (mg/l)

ground = 0,63 (mg/kg ground)

### 8.2. Exposure controls



Appropriate engineering controls:

Private households (= general public = consumers):

Observe usual safety precautions in the handling of chemicals.

Public domain (administration, education, entertainment, services, craftsmen):

Well ventilated environment. Observe the safety measures used in handling chemicals.

Individual protection measures:

a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

b) Skin protection



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i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

ii) Other

When handling the pure product wear full protective skin clothing.

c) Respiratory protection

Not needed for normal use.

d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

### SECTION9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value
Appearance	Opalescent liquid
Odour	Alcohol content
Odour threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	78°C
Flash point	<21°C
Evaporation rate	Not determined
Flammability (solid, gas)	Irrelevant
Upper/lower flammability or explosive limits	15,0% - 3,5%
Vapour pressure	59hPa (20°C)
Vapour density	Not determined
Relative density	0,8g/mL
Solubility	All soluble organic solvents
Water solubility	Soluble in all relationships
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	The fumes can generate explosive atmosphere.
Oxidising properties	Not determined

#### 9.2. Other information

Content of VOC ready to use condition: 99,40 %

### SECTION10. Stability and reactivity



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### 10.1. Reactivity

No reactivity hazards

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Avoid contact with combustible materials. The product could catch fire. heat, open flames, sparks or hot surfaces.

### 10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, strong reducing agents. It can ignite in contact with oxidants mineral acids, elementary metals, nitrides, organic peroxides, organic water peroxides, oxidating and reducing agents.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = ∞  
ATE(mix) dermal = ∞  
ATE(mix) inhal = ∞

(a) acute toxicity: ETHYL ALCOHOL: The substance irritates the eyes. Inhalation of high vapour concentrations may cause irritation of the eyes and respiratory tract. The substance may cause effects on the central nervous system.

Acute hazards/symptoms:

Inhalation: Cough. Headaches. Fatigue. Drowsiness.

SKIN: dry scalp.

Eye Redness. Pain. Burning.

Ingestion: burning sensation. Headaches. Confusion. Vertigo. Unconsciousness.

(b) skin corrosion/irritation based on available data, the classification criteria are not met.

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: based on available data, the classification criteria are not met.

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure: ETHYL ALCOHOL: The liquid degreasing the skin



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features. The substance may have an effect on the high central nervous system respiratory tract, causing irritation, headaches, fatigue and lack of concentration.

(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

ETHYL ALCOHOL:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its fumes and ingestion.

INHALATION RISK: A harmful contamination of the air will be reached quite slowly due to evaporation of the substance at 20°C.

NOTE. The consumption of ethanol during pregnancy can have adverse effects on the unborn child. Chronic ethanol ingestion can cause cirrhosis of the liver.

LD50 (rat) Oral (mg/kg body weight) = 14000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 20000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 20000

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

ETHYL ALCOHOL:

Practically non-toxic to aquatic organisms.

CE50=275mg/L (algae, *Chlorella vulgaris*, 72h)

CE50=12,34mg/L (invertebrates, *daphnia magna*, 48h)

EC50=13g/L (fish, *salmo gairdneri*, 96h)

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

Related to contained substances:

ETHYL ALCOHOL:

This product is readily biodegradable.

### 12.3. Bioaccumulative potential

Related to contained substances:

ETHYL ALCOHOL:

There is no evidence of bioaccumulation of this product at a través of the food chain.

### 12.4. Mobility in soil

Related to contained substances:

ETHYL ALCOHOL:

This product quickly evaporates in the air due to the high vapour pressure. The product is poorly absorbed by soils and sediments.

Log Pow=-0,35

### 12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII



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### 12.6. Other adverse effects

No adverse effects

## SECTION13. Disposal considerations

### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

## SECTION14. Transport information

### 14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 1170

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg



### 14.2. UN proper shipping name

ADR/RID/IMDG: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

ICAO-IATA: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

### 14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 3

ADR/RID/IMDG/ICAO-IATA: Label : 3

ADR: Tunnel restriction code : D/E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L

IMDG - EmS : F-E, S-D

### 14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

### 14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : Not

### 14.6. Special precautions for user

The goods must be transported by vehicles authorized to transport of dangerous goods according to the current edition of ADR requirements and applicable national regulations.

The goods must be in original packing, however, in packaging made of materials resistant to their content and not likely to generate with this dangerous reactions. People loading and unloading dangerous goods must be trained on the risks from these substances and that must be taken in case of emergency situations.



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### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

## SECTION 15. Regulatory information

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

Reg (EC) n. 1907/2006 (REACH), Reg (EC) n. 1272/2008 (CLP), Reg (EC) n. 830/2015 (Requirements for the compilation of safety data sheets), Reg (E) n.790/2009, Dir 96/82/EC as amended.

Seveso category:

P5c - FLAMMABLE LIQUIDS

REGULATION (EU) No 1357/2014 - waste:

HP3 - Flammable

HP4 - Irritant — skin irritation and eye damage

### 15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

## SECTION 16. Other information

### 16.1. Other information

Description of the hazard statements exposed to point 3

H225 = Highly flammable liquid and vapour.

H319 = Causes serious eye irritation.

Classification based on data of all mixture components

Regulatory information:

Reg 1907/2006 EC

Reg 1272/2008 EC

Reg 830/2015 EC

Bibliographic data :

SAX 12 Ed Van Nostrand Reinhold

MERCK INDEX 15 Ed

ECHA: European Chemicals Agency

OSHA: European Agency for Safety and Health at Work

IARC: International Agency for Research on Cancer

IPCS: International Programme on Chemical Safety (Cards)

NIOSH: Registry of toxic effects of chemical substances (1983)

ACGIH: American Conference of Governmental Industrial Hygienists

TOXNET: Toxicology Data Network

WHO: World Health Organization

CheLIST: Chemical Lists Information System

Acronyms:

- ACGIH American Conference of Governmental Industrial Hygienists

- ADR Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route (European accord regarding international transport of dangerous goods by land)

- bw body weight



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- CLP Classification, Labelling and Packaging
- CSR Chemical Safety Report
- DMEL Derived Minimal Effect Level
- DNEL Derived No Effect Level
- dw dry weight
- EC Effective Concentration
- IATA International Air Transport Association
- IMDG International Maritime Dangerous Goods
- LC Lethal Concentration
- LD Lethal Dose
- m.w. molecular weight
- PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- OECD Organisation / Office for Economic Co-operation and Development
- STEL Short Term Exposure Limit
- SVHC Substance of Very High Concern
- TLV Threshold Limit Value
- TWA Time Weighted Average
- vPvB very Persistent, very Bioaccumulative and toxic
- WGK Wassergefährdungsklasse (Water hazard class)

### NOTICE TO USERS

The information contained in this sheet are based on the knowledge available at the date of the preparation of this sheet.

The user must be aware of the possible risks associated with the use of the product, other than that for which the product is supplied. The sheet does not exonerate the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfill its obligations regarding the use of hazardous products.

This sheet does not exonerate the user from other legal obligations than those mentioned and from rules regulating possession and use of the product, since the user is the only responsible.

\*\*\* This sheet supersedes all previous editions.

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