

Material safety data sheet according to (EC) no. 1272/2008

Modified on: 06/29/2015

Issued on: 06/29/2015

Version: 1.1

Replaces version: 1.0

## Safety Data Sheet

according to Regulation (EC) No. 1272/2008

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

**Product name** PROFORMIC C1001

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

**Identified uses** Adhesives

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

##### Supplier

VIKO UG (haftungsbeschränkt)

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#### Emergency Telephone

**Emergency Telephone** Chemtrec @ 001-703-741-5970 (24hrs)

### Section 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture GHS Classification

Acute toxicity - Oral	Category 4
Acute Inhalation toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin Sensitization	Category 1
Specific target organ toxicity - single exposure	Category 3
Chronic aquatic toxicity	Category 3

#### **Physical hazards**

None

#### **Target Organ Effects**

Respiratory system, EYES, Skin.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

The substance/preparation is classified as dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

**Symbol(s)** Xn - Harmful

**Classification** Xn;R20/21/22 - Xi;R36/37/38 - R43 - R52-53

**Labelling**

Contains 2-Hydroxyethyl methacrylate , N,N-Dimethylacrylamide, Isobornyl Acrylate, Acrylic acid

**Label elements****Signal word****Warning****Hazard statements**

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H412 - Harmful to aquatic life with long lasting effects

**Precautionary statements**

P270 - Do not eat, drink or smoke when using this product  
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell  
P330 - Rinse mouth  
P332 + P313 - If skin irritation occurs: Get medical advice/ attention  
P362 - Take off contaminated clothing and wash before reuse  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
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  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention  
P321 - Specific treatment (see supplemental first aid instructions on this label)  
P363 - Wash contaminated clothing before reuse  
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray  
P271 - Use only outdoors or in a well-ventilated area  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up  
P273 - Avoid release to the environment  
P501 - Dispose of contents/ container to an approved waste disposal plant.  
P391 - Collect spillage

**2.3 Other Information****General Hazards**

None known

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

The ingredients listed in this section have been determined to be hazardous and above threshold limits  
Hazardous components

Chemical Name	EC-No	CAS No	Weight percent	Classification (67/548)	GHS Classification
Isobornyl Acrylate	227-561-6	5888-33-5	15-24	Xi;R36/37/38 N;R51-53	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
N,N-Dimethylacrylamide	220-237-5	2680-03-7	15-24	T;R23 Xn;21/22 Xi;R36	Acute Tox. 3 (H301) Acute Tox. 4 (H312) Eye Irrit. 2B (H320) Skin Corr. 2(H315)
2-Hydroxyethyl methacrylate	212-782-2	868-77-9	1-4	Xi;R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)
Acrylic acid	201-177-9	79-10-7	1-4	R10 Xn;R20/21/22 C;R35 N;R50	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Aquatic Acute 1 (H400)
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	278-355-8	75980-60-8	1-4	Repr. Cat.3;R62 N;R51-53	Repr. 2 (H361f) Aquatic Chronic 2 (H411)
3-trimethoxysilylpropylmethacrylate	219-785-8	2530-85-0	1-4	Xi;R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	423-340-5	162881-26-7	<1	R43 R53	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)

**For the full text of the R-phrases mentioned in this Section, see Section 16**

### Section 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

##### Eye contact

Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists

##### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

##### Ingestion

Get medical attention

##### Inhalation

Move to fresh air If symptoms persist, call a doctor

##### Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

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

**Main symptoms**

None

**4.3 Indication of any immediate medical attention and special treatment needed****Note to doctors**

Treat symptomatically

**Section 5: FIRE FIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**Use CO<sub>2</sub>, dry chemical, or foam**Extinguishing media which shall not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

Hazardous decomposition products due to incomplete combustion

**Specific hazards arising from the chemical**Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke**5.3 Advice for firefighters****Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit

**Section 6: ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Ensure adequate ventilation, Wear protective gloves/clothing and eye/face protection.

**Environmental precautions****Environmental precautions**

Local authorities should be advised if significant spillages cannot be contained, Try to prevent the material from entering drains or water courses.

**6.3 Methods and materials for containment and cleaning up****Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**Methods for containment**

Prevent further leakage or spillage if safe to do so

**Other Information**

See Section 12 for additional information

**Section 7: HANDLING AND STORAGE****7.1 Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice, Ensure adequate ventilation, Protect from light

**Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place, Protect from light.

**Specific end uses****Exposure scenario**

No information available

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure limits**

Chemical Name	European Union	The United Kingdom	Denmark	France	Finland
Acrylic acid			TWA 2 ppm TWA 5.9 mg/m <sup>3</sup> H*	TWA 2 ppm TWA 6 mg/m <sup>3</sup> STEL 10 ppm STEL 30 mg/m <sup>3</sup>	TWA 2 ppm TWA 6 mg/m <sup>3</sup> STEL 15 ppm STEL 45 mg/m <sup>3</sup>

Chemical Name	Ireland	Norway	Poland	Portugal	Switzerland
Isobornyl Acrylate					S+
2-Hydroxyethyl methacrylate		TWA 2 ppm TWA 11 mg/m <sup>3</sup> A+ STEL 4 ppm STEL 16.5 mg/m <sup>3</sup>			S+
Acrylic acid	TWA 2 ppm TWA 6 mg/m <sup>3</sup> STEL 6 ppm STEL 18 mg/m <sup>3</sup>	TWA 10 ppm TWA 30 mg/m <sup>3</sup> STEL 20 ppm STEL 45 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> STEL 29.5 mg/m <sup>3</sup>	TWA 2 ppm C(A4) P*	SS-C** TWA 10 ppm TWA 30 mg/m <sup>3</sup> STEL 10 ppm STEL 30 mg/m <sup>3</sup>
3-trimethoxysilylpropylmethacrylate					S+

Chemical Name	Germany	The Netherlands	Austria	Italy	Spain
Acrylic acid	AGW 10 ppm AGW 30 mg/m <sup>3</sup>				TWA 2 ppm TWA 6 mg/m <sup>3</sup> S*

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration (PNEC)**

No information available

**Exposure controls****Occupational exposure controls**

**Engineering measures**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Hygiene measures**

When using, do not eat, drink or smoke, Wear suitable gloves and eye/face protection, Wash hands before breaks and at the end of workday, Wash hands with water as a precaution, Regular cleaning of equipment, work area and clothing is recommended, Avoid breathing vapours, mist or gas.

**Personal protective equipment****General Information**

Use personal protective equipment in good condition.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Eye protection**

Safety glasses with side-shields, If splashes are likely to occur, wear:., Goggles.

**Skin and body protection**

Long sleeved clothing, Apron, Impervious gloves.

**Hand protection**

Nitrile rubber, Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

**Environmental exposure controls**

Do not allow material to contaminate ground water system.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odour</b>	characteristic
<b>Appearance</b>	transparent	<b>Odour threshold</b>	No information available
<b>Colour</b>	light yellow		
<b>Property</b>	<b>Values</b>	<b>Remarks - Method</b>	
<b>pH</b>		No information available	
<b>Melting point/freezing point</b>		No information available	
<b>Boiling point / boiling range</b>		No information available	
<b>Flash point</b>	101 °C / 214 °F		
<b>Evaporation rate</b>		No information available	
<b>Flammability (solid, gas)</b>		No information available	
<b>Flammability Limit in Air</b>		No information available	
<b>Upper flammability limit</b>			
<b>Lower flammability limit</b>			
<b>Vapour pressure</b>		No information available	
<b>Vapour density</b>		No information available	
<b>Relative density</b>		No information available	
<b>Specific Gravity</b>		No information available	
<b>Water solubility</b>		No information available	
<b>Solubility in other solvents</b>		No information available	
<b>Partition coefficient: n-octanol/water</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Dynamic viscosity</b>	3,000 cP		
<b>Explosive properties</b>		No information available	
<b>Oxidizing properties</b>		No information available	

**Other information Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

**Section 10: STABILITY AND REACTIVITY****Reactivity****Reactivity**

No dangerous reaction known under conditions of normal use

**Chemical stability****Stability**

Stable under normal conditions.

**10.3 Possibility of Hazardous Reactions****Hazardous polymerisation**

None under normal processing

**Hazardous reactions**

None under normal processing

**Conditions to avoid****Conditions to avoid**

Heat, flames and sparks, Protect from light.

**10.5 Incompatible materials****Materials to avoid**

Amines, Oxygen scavengers, Strong oxidising agents, Strong acids, Strong bases, Thiosulfates.

**Hazardous decomposition products Hazardous Decomposition Products****Hazardous Decomposition Products**

No decomposition if stored and applied as directed.

**Section 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

2.5% of the mixture consists of ingredient(s) of unknown toxicity

**Product Information**

No acute toxicity information is available for this product

Inhalation	There is no data available for this product
Eye contact	There is no data available for this product
Skin Contact	There is no data available for this product
Ingestion	There is no data available for this product

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl Acrylate	= 4890 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	
N,N-Dimethylacrylamide	= 316 mg/kg ( Rat )	= 540 µL/kg ( Rabbit )	776 mg/l ( Rat ) 1 h
2-Hydroxyethyl methacrylate	= 5050 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	
Acrylic acid	= 193 mg/kg ( Rat ) = 33500 µg/kg ( Rat )	= 280 µL/kg ( Rabbit ) = 295 mg/kg ( Rabbit )	= 5300 mg/m <sup>3</sup> ( Rat ) 2 h
3-trimethoxysilylpropylmethacrylate	> 5000 mg/kg ( Rat )		
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-		> 2,000 mg/kg ( Rat )	

**Chronic toxicity****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**Carcinogenic effects**

Contains no ingredient listed as a carcinogen

**Subchronic toxicity**

<b>Sensitisation</b>	No information available
<b>Target Organ Effects</b>	Respiratory system, EYES, Skin.
<b>Corrosivity</b>	No information available
<b>Neurological effects</b>	No information available
<b>Reproductive Toxicity</b>	No information available
<b>Mutagenic effects</b>	No information available
<b>Developmental Toxicity</b>	No information available
<b>Teratogenicity</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Other adverse effects</b>	No information available
<b>Aspiration hazard</b>	No information available

**Section 12: ECOLOGICAL INFORMATION****Toxicity****Ecotoxicity effects**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

2.5% of the mixture consists of ingredient(s) of unknown toxicity

**Acute aquatic toxicity****Product Information**

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3

**Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Isobornyl Acrylate	ErC 50 = 2.7 mg/L 96 h (Pseudokirchneriella subcapitata)	LC50 = 1.8 mg/L 96 h (Danio rerio)	EC 50 = 1.1 mg/L 48 h (Daphnia magna)
2-Hydroxyethyl methacrylate		LC50 = 227 mg/L 96 h (Pimephales promelas)	EC50 > 380 mg/l 48 h (Daphnia magna)
Acrylic acid	EC50 0.04 mg/L 72 h (Desmodesmus subspicatus)	LC50 = 222 mg/L 96 h (Brachydanio rerio)	EC50 = 95 mg/L 48 h
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide		LC50 10 mg/l 48 h (Oryzias latipes)	



3-trimethoxysilylpropylmethacrylate	EC50 > 536,00 mg/l 72 h (Scenedesmus subspicatus)	LC50 > 1024,00 mg/l 96 h (Brachydanio rerio)	EC50 > 876,00 mg/l 48 h (Daphnia magna)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	EC50 > 0.26 mg/l 72 h (Scenedesmus sp.)	LC50 > 0.09 mg/l 96 h (Brachydanio rerio)	EC50 > 1.175 mg/l 48 h (Daphnia magna)

**Persistence and degradability**

No product level data available

**Bioaccumulative potential****Component Information**

Chemical Name	log Pow
2-Hydroxyethyl methacrylate	0.47
Acrylic acid	0.46

**Mobility in soil**

No product level data available

**Results of PBT and vPvB assessment**

No product level data available

**Other adverse effects**

None

**Section 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Waste from residues / unused products**

Should not be released into the environment, Dispose of in accordance with the European Directives on waste and hazardous waste.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal

**Other Information**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used

**Section 14: TRANSPORT INFORMATION**ADR/RID Not regulatedIMDG/IMO Not regulatedICAO/IATA Not regulated**Section 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****WGK Classification**

Water endangering class = .? (self classification)

**International Inventories**

The components of this product are included on the following inventories or exempt from listing:

TSCA	Complies
KECL	Complies
IECSC	Complies
AICS	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
ENCS	Complies
PICCS	Not Listed
NZIoC	Complies
ECSI	Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

ECSI - Taiwan Existing Substance Inventory

**15.2 Chemical Safety Assessment**

No information available

**Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H317 - May cause an allergic skin reaction

H413 - May cause long lasting harmful effects to aquatic life

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H320 - Causes eye irritation

H411 - Toxic to aquatic life with long lasting effects

H361f - Suspected of damaging fertility

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H314 - Causes severe skin burns and eye damage

H400 - Very toxic to aquatic life

**Full text of R-phrases referred to under sections 2 and 3**

R23 - Toxic by inhalation

R36 - Irritating to eyes

R43 - May cause sensitisation by skin contact

R35 - Causes severe burns

R10 - Flammable

R62 - Possible risk of impaired fertility

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/37/38 - Irritating to eyes, respiratory system and skin

R21/22 - Harmful in contact with skin and if swallowed

R36/38 - Irritating to eyes and skin

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

**Revision Date** 2015-06-29

**Revision Note** Not applicable.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

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End of Safety Data Sheet