

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : 2C Perma Coat (B-comp.)  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use

Title	Use descriptors
2C Perma Coat (B-comp.)	SU22, PC9a, PROC10, PROC11

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

No additional information available

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

CHEMONA Holding B.V.  
Rouwkooplaan 5  
2251 AP VOORSCHOTEN  
T (+31) 088 - 141 04 44  
[info@nanocoatinternational.com](mailto:info@nanocoatinternational.com) - [www.nanocoatinternational.com](http://www.nanocoatinternational.com)

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226  
Acute Tox. 4 (Oral) H302  
Skin Corr. 1B H314

Full text of H-phrases: see section 16

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

Xn; R22  
C; R34  
R10

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS05

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : 3-aminopropyltriethoxysilane

Hazard statements (CLP) : H226 - Flammable liquid and vapour  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P260 - Do not breathe vapours, spray

# 2C Perma Coat (B-comp.)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

P280 - Wear protective gloves, eye protection, protective clothing  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P310 - Immediately call a POISON CENTER or doctor/physician  
P370+P378 - In case of fire: Use Foam, powder, carbon dioxide (CO<sub>2</sub>), water spray to extinguish  
P501 - Dispose of contents/container to according to local regulations.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
3-aminopropyltriethoxysilane	(CAS No) 919-30-2 (EC no) 213-048-4 (EC index no) 612-108-00-0 (REACH-no) 01-2119480479-24	50 - 75	Xn; R22 C; R34
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1 (REACH-no) 01-2119485493-29	10 - 20	R10 R66 R67

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-aminopropyltriethoxysilane	(CAS No) 919-30-2 (EC no) 213-048-4 (EC index no) 612-108-00-0 (REACH-no) 01-2119480479-24	50 - 75	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1 (REACH-no) 01-2119485493-29	10 - 20	Flam. Liq. 3, H226 STOT SE 3, H336

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash skin with plenty of water and soap. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
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# 2C Perma Coat (B-comp.)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.

#### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Sources of ignition, Direct sunlight, Heat. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

n-butyl acetate (123-86-4)		
United Kingdom	Local name	Butyl acetate
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	200 ppm

#### 3-aminopropyltriethoxysilane (919-30-2)

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	8,3 mg/kg bodyweight/day
Acute - systemic effects, inhalation	59 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	8,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	59 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	17,4 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,33 mg/l

# 2C Perma Coat (B-comp.)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

<b>n-butyl acetate (123-86-4)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, inhalation	960 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	480 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, inhalation	859,7 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	102,34 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,18 mg/l

### 8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Protective clothing. Insufficient ventilation: wear respiratory protection.



- Hand protection : Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (>=0.4 mm), butyl rubber (>=0.7 mm) and others.
- Eye protection : Wear eye glasses with side protection according to EN 166.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Combination filtering device (DIN EN 141).
- Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: colourless to slightly yellow.
Odour	: Amine-like.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 25 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1,4 - 7,5 vol %

### 9.2. Other information

VOC content : EU limit value for this product (cat. A/j); 500 g/l (2010). This product contains max. 500 g/l VOC.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

# 2C Perma Coat (B-comp.)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

3-aminopropyltriethoxysilane (919-30-2)	
LD50 oral rat	3980 mg/kg
LD50 dermal rabbit	4,29 ml/kg
LC50 inhalation rat (ppm)	> 5 ppm (6h)

n-butyl acetate (123-86-4)	
LD50 oral rat	14,5 ml/kg
LD50 dermal rabbit	> 16 ml/kg
LC50 inhalation rat (mg/l)	> 21 mg/l (4h)

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Avoid release to the environment.

3-aminopropyltriethoxysilane (919-30-2)	
LC50 fishes	> 934 mg/l

### 12.2. Persistence and degradability

2C Perma Coat (B-comp.)	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

2C Perma Coat (B-comp.)	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

# 2C Perma Coat (B-comp.)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

: Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : 08 01 11\* - waste paint and varnish containing organic solvents or other dangerous substances  
20 01 27\* - paint, inks, adhesives and resins containing dangerous substances

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 3470  
UN-No. (IMDG) : 3470  
UN-No.(IATA) : 3470  
UN-No.(ADN) : 3470  
UN-No. (RID) : 3470

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : PAINT, CORROSIVE, FLAMMABLE / PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 8 (3)  
Hazard labels (ADR) : 8, 3



#### IMDG

Transport hazard class(es) (IMDG) : 8

#### IATA

Transport hazard class(es) (IATA) : 8

#### ADN

Transport hazard class(es) (ADN) : 8

#### RID

Transport hazard class(es) (RID) : 8 (3)  
Danger labels (RID) : 8, 3



# 2C Perma Coat (B-comp.)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 14.4. Packing group

Packing group (ADR)	: II
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Classification code (ADR)	: CF1
Special provision (ADR)	: 163
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 83
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: •3W
APP code	: A(fl)

#### 14.6.2. Transport by sea

MFAG-No	: 132
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#### 14.6.3. Air transport

#### 14.6.4. Inland waterway transport

Not subjected to ADN	: No
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#### 14.6.5. Rail transport

Classification code (RID)	: CF1
Carriage prohibited (RID)	: No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

VOC content : EU limit value for this product (cat. A/j); 500 g/l (2010). This product contains max. 500 g/l VOC.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

Indication of changes:

1.1		Modified	name changed.
1.2		Modified	name changed.

# 2C Perma Coat (B-comp.)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H336	May cause drowsiness or dizziness
R10	Flammable
R22	Harmful if swallowed
R34	Causes burns
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
C	Corrosive
Xn	Harmful
PC9a	Coatings and paints, thinners, paint removers
PROC10	Roller application or brushing
PROC11	Non industrial spraying
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*