

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

19009 - UV-A1 primer aerosol

**Product no.**

19009

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

UV filling insulating base for autobody application

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

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

**Company and address**

HBC System Smarttool Production ApS

Hobrovej 961-963

9530 Støvring

Denmark

tel:+45 70 22 70 70

**Contact person**

Vibeke Jørgensen

**E-mail**

info@hbc-system.com

**SDS date**

2016-05-27

**SDS Version**

2.0

### 1.4. Emergency telephone number

Use your national or local emergency number

See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Aerosol 1; H229

Aerosol 1; H222

Skin Sens. 1; H317

STOT RE 2; H373

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Danger

**Hazard statement(s)**

- Pressurised container: May burst if heated. (H229)
- Extremely flammable aerosol. (H222)
- May cause an allergic skin reaction. (H317)
- May cause damage to organs through prolonged or repeated exposure. (H373)

General -

Prevention

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

Do not pierce or burn, even after use. (P251).

Wear protective gloves/eye protection. (P280).

**Safety**

**statement(s)**

Response

Get medical advice/attention if you feel unwell. (P314).

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313).

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412).

Disposal -

**Identity of the substances primarily responsible for the major health hazards**

styrene, hexamethylene diacrylate, hexane-1,6-diol diacrylate

**2.3. Other hazards**

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

**Additional labelling**

Contains PHENYL,BIS,2,4,6-TRIMETHYLBENZOYL,-PHOSPHINE,OXIDE. May produce an allergic reaction.

**Additional warnings**

-

**VOC**

VOC-MAX: 690 g/l, MAXIMUM VOC CONTENT (B/c1): 540 g/l.

**SECTION 3: Composition/information on ingredients**

**3.1/3.2. Substances/Mixtures**

NAME:	dimethyl ether
IDENTIFICATION NOS.:	CAS-no: 115-10-6 EC-no: 204-065-8 Index-no: 603-019-00-8
CONTENT:	80-95%
CLP CLASSIFICATION:	Comp. Gas, Flam. Gas 1 H220, H280 S
NOTE:	
NAME:	styrene
IDENTIFICATION NOS.:	CAS-no: 100-42-5 EC-no: 202-851-5 REACH-no: 012119457861-32 Index-no: 601-026-00-0
CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT RE 1, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Asp. Tox. 1, Aquatic Chronic 3 H226, H304, H315, H319, H332, H335, H372, H412 S
NOTE:	
NAME:	hexamethylene diacrylate, hexane-1,6-diol diacrylate
IDENTIFICATION NOS.:	CAS-no: 13048-33-4 EC-no: 235-921-9 REACH-no: 01-2119484737-22 Index-no: 607-109-00-8
CONTENT:	1-3%
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3 H315, H317, H319, H412
NAME:	PHENYL,BIS,2,4,6-TRIMETHYLBENZOYL,-PHOSPHINE,OXIDE
IDENTIFICATION NOS.:	CAS-no: 162881-26-7 EC-no: 423-340-5 REACH-no: 01-2119489401-38-0000 Index-no: 015-189-00-5
CONTENT:	<1%
CLP CLASSIFICATION:	Skin Sens. 1, Aquatic Chronic 4 H317, H413

(\*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.

S = Organic solvent

**Other informations**

ATEmix(inhale, vapour) > 20  
ATEmix(oral) > 2000  
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,392 - 0,588  
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,392 - 0,588  
N chronic (CAT 4) Sum = Sum(Ci/M(chronic))\*25\*0.1\*10^CAT4 = 0,1568 - 0,2352

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

#### Inhalation

Get the injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

#### Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor.

#### Ingestion

In the case of ingestion, contact a doctor immediately and take this safety data sheet or the label from the material with you. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down so that no vomit runs back into the mouth and throat. Prevent shock by keeping the injured person warm and calm. Give mouth-to-mouth resuscitation if breathing stops. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

#### Burns

Rinse with water until the pain stops and continue for 30 minutes.

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

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

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

Call a POISON CENTER/doctor if you feel unwell.

#### Information to medics

Bring this safety data sheet.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

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

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances. Avoid inhalation of vapours from waste material. Stores that have not ignited must be cooled by water mist. Where possible, remove flammable materials. Make sure there is sufficient ventilation.

### 6.2. Environmental precautions

No specific requirements.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

### 6.4. Reference to other sections

See section on "Disposal considerations" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

Always store in containers of the same material as the original. Must be stored in a cool and ventilated area, away from possible sources of combustion.

Please be aware that this is a chemical that forms peroxides. The content of peroxide must be controlled regularly after opening for example every 6th month.

#### Storage temperature

No data available.

### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

styrene (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 430 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 250 ppm | 1080 mg/m<sup>3</sup>

dimethyl ether (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 400 ppm | 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 500 ppm | 958 mg/m<sup>3</sup>

#### DNEL / PNEC

DNEL ( styrene ): 406 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ( styrene ): 343 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL ( styrene ): 2,1 mg/kg

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL ( styrene ): 85 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

According to EC-Regulation 1907/2006 (REACH)

DNEL ( styrene ): 10,6 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL ( styrene ): 289 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Systemic effects - Workers

DNEL ( styrene ): 174,25 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Systemic effects - General population

DNEL ( styrene ): 306 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - Workers

DNEL ( styrene ): 182,75 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - General population  
DNEL ( hexamethylene diacrylate hexane-1,6-diol diacrylate ): 24,48 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers  
DNEL (PHENYL,BIS,2,4,6-TRIMETHYLBENZOYL,-PHOSPHINE,OXIDE): 7,8 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (PHENYL,BIS,2,4,6-TRIMETHYLBENZOYL,-PHOSPHINE,OXIDE): 7,8 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (PHENYL,BIS,2,4,6-TRIMETHYLBENZOYL,-PHOSPHINE,OXIDE): 3,3 mg/kg  
Exposure: Dermal  
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (PHENYL,BIS,2,4,6-TRIMETHYLBENZOYL,-PHOSPHINE,OXIDE): 3,3 mg/kg  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

PNEC ( styrene ): 0,028 mg/L  
Exposure: Freshwater

PNEC ( styrene ): 0,028 mg/L  
Exposure: Marine water

PNEC ( styrene ): 0,614 mg/kg  
Exposure: Freshwater sediment

PNEC ( styrene ): 0,0614 mg/kg  
Exposure: Marine water sediment

PNEC ( styrene ): 0,2 mg/kg  
Exposure: Soil

PNEC ( hexamethylene diacrylate hexane-1,6-diol diacrylate ): 0,0015 mg/L  
Exposure: Freshwater

PNEC ( hexamethylene diacrylate hexane-1,6-diol diacrylate ): 0,00015 mg/L  
Exposure: Marine water

PNEC ( hexamethylene diacrylate hexane-1,6-diol diacrylate ): 0,0137 mg/kg  
Exposure: Soil

## 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

### General recommendations

Observe general occupational hygiene.

### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

### Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations

for exposure. See work hygiene threshold values below.

#### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

#### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible collect spillage during work.

#### Individual protection measures, such as personal protective equipment



#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

Recommended: AX. Brown

#### Skin protection

Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

#### Hand protection

Use protective gloves. The concrete work situation is not known. Contact the suppliers of the gloves for help on the glove type. Please note that elastic gloves stretch when used. The thickness of the gloves, and therefore their penetration time, will be reduced. Moreover, the temperature of the glove in use is about 35°C, while the standard test, EN 374-3, is done at 23°C. The penetration time is therefore reduced by a factor of 3.

#### Eye protection

Use safety glasses with a side shield.

## SECTION 9: Physical and chemical properties

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

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Aerosol	-	-	-	-	0,8

#### Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

#### Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

#### Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

### 9.2. Other information

Solubility in fat	Additional information
-	N/A

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

According to EC-Regulation 1907/2006 (REACH)

#### 10.4. Conditions to avoid

Avoid static electricity.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

Substance	Species	Test	Route of exposure	Result
PHENYL,BIS,2,4,6-TRIMETHYLBENZ...	Rat	LD50		> 2000 mg/kg
PHENYL,BIS,2,4,6-TRIMETHYLBENZ...	Rat	LD50	Oral	> 2000 mg/kg
PHENYL,BIS,2,4,6-TRIMETHYLBENZ...	Rabbit	LD50		3650 mg/kg
hexamethylene diacrylate hex...	Rat	LD50	Oral	> 5000 mg/kg
hexamethylene diacrylate hex...	Rat	LD50	Intraperitoneal	> 2000 mg/kg
styrene	Rat	LD50	Oral	898 mg/kg
styrene	Rat	LC50	Inhalation	5000 mg/kg
styrene	Rabbit	LC50	Inhalation	11,8 mg/L/4H
styrene				308 g/m <sup>3</sup>
dimethyl ether				

##### Skin corrosion/irritation

No data available.

##### Serious eye damage/irritation

No data available.

##### Respiratory or skin sensitisation

May cause an allergic skin reaction. Data on substance: hexamethylene diacrylate hexane-1,6-diol diacrylate

Organism: Guinea pig

Result: skin sensitizer

##### Germ cell mutagenicity

No data available.

##### Carcinogenicity

No data available.

##### Reproductive toxicity

No data available.

##### STOT-single exposure

No data available.

##### STOT-repeated exposure

May cause damage to organs.

##### Aspiration hazard

No data available.

##### Long term effects

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Substance	Species	Test	Test duration	Result
-----------	---------	------	---------------	--------

According to EC-Regulation 1907/2006 (REACH)

PHENYL,BIS,2,4,6-TRIMETHYLBENZ...	Daphnia	EC50	48 h	1,175 mg/L
PHENYL,BIS,2,4,6-TRIMETHYLBENZ...	Algae	EC50	72 h	0,260 mg/L
PHENYL,BIS,2,4,6-TRIMETHYLBENZ...	Fish	LC50	96 h	0,09 mg/L
PHENYL,BIS,2,4,6-TRIMETHYLBENZ...	Daphnia	LC50	48 h	4700 µg/L
styrene	Fish	LC50	96 h	29000 µg/L
styrene				

## 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data available.			

## 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
styrene	No	2,95	No data available
dimethyl ether	No	0,1	No data available

## 12.4. Mobility in soil

styrene : Log Koc= 2,414505, Calculated from LogPow (Moderate mobility potential.). dimethyl ether : Log Koc= 0,15759, Calculated from LogPow (High mobility potential.).

## 12.5. Results of PBT and vPvB assessment

No data available

## 12.6. Other adverse effects

This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

#### Waste

EWC code

-

#### Specific labelling

-

#### Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

## SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

### 14.1 – 14.4

#### ADR/RID

14.1. UN number	1263
14.2. UN proper shipping name	PAINT
14.3. Transport hazard class(es)	3,2
14.4. Packing group	II
Notes	-
Tunnel restriction code	-

#### IMDG

UN-no.	1263
Proper Shipping Name	PAINT
Class	3,2
PG*	II
EmS	F-E, S-E
MP**	No
Hazardous constituent	-

#### ▼ IATA/ICAO

UN-no.	
Proper Shipping Name	
Class	

PG\*

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

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

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

#### Demands for specific education

-

#### Additional information

#### Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

EC Regulation 1272/2008 (CLP).

EC regulation 1907/2006 (REACH).

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H220 - Extremely flammable gas.

H226 - Flammable liquid and vapour.

H280 - Contains gas under pressure; may explode if heated.

H304 - May be fatal if swallowed and enters airways.

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.

H372 - Causes damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

H413 - May cause long lasting harmful effects to aquatic life.

### The full text of identified uses as mentioned in section 1

-

### Other symbols mentioned in section 2



#### Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

According to EC-Regulation 1907/2006 (REACH)



The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

**The safety data sheet is validated by**

kbb

**Date of last essential change  
(First cipher in SDS version)**

2016-01-28

**Date of last minor change  
(Last cipher in SDS version)**

2016-01-28

---

ALPHAOMEGA. Licens nr.:3021486427, HBC SYSTEM Danmark  
[www.chymeia.com](http://www.chymeia.com)