

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Clearcoat, aerosol

**Product no.**

00.303

**REACH registration number**

Not applicable

**Other means of identification**

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

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

1K clearcoat, topfinish

**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**

04-09-2013

**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

Flam. Aerosol 1, Flam. Liq. 3 // EUH066, H226, H222

See full text of H/R-phrases in section 2.2.

**DPD/DSD Classification**

-

Vapours may cause drowsiness and dizziness.(R67). Repeated exposure may cause skin dryness or cracking.(R66). Flammable.(R10).

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Danger!

**Hazard statement(s)**

Extremely flammable aerosol. (H222)

Flammable liquid and vapour. (H226)

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

-

|            |  |
|------------|--|
| General    | -  |
| Prevention | Pressurized container: Do not pierce or burn, even after use. (P251)<br>Keep away from heat/sparks/open flames/hot surfaces. — No smoking. (P210)                                  |
| Response   | In case of fire: Use ... to extinguish. (P370+P378)<br>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303+P361+P353) |
| Storage    | Protect from sunlight. Do not expose to temperatures exceeding 50 oC/122oF. (P410+P412)  |
| Disposal   | Dispose of contents/container to an approved waste disposal plant. (P501)  |

**Safety statement(s)**

**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**

"Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even when empty."

Repeated exposure may cause skin dryness or cracking. (EUH066)

**Additional warnings**

-

**VOC**

VOC-MAX: 805 g/l, MAXIMUM VOC CONTENT (B/e): 840 g/l.

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

**3.1/3.2. Substances**

NAME: Dimethyl ether  
 IDENTIFICATION NOS.: CAS-no: 115-10-6 EC-no: 204-065-8 Index-no: 603-019-00-8  
 CONTENT: 40-60%  
 DSD CLASSIFICATION: F+; R12  
 CLP CLASSIFICATION: Press. Gas  
 H220  
 NOTE: S

NAME: n-butyl acetate  
 IDENTIFICATION NOS.: CAS-no: 123-86-4 EC-no: 204-658-1 Index-no: 607-025-00-1  
 CONTENT: 15-25%  
 DSD CLASSIFICATION: R10 R66 R67  
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3  
 H226, H336, EUH066  
 NOTE: S

NAME: Xylene, mixture of isomeres  
 IDENTIFICATION NOS.: CAS-no: 1330-20-7 EC-no: 215-535-7 Index-no: 601-022-00-9  
 CONTENT: 5-15%  
 DSD CLASSIFICATION: R10 Xn; R20/21 Xi; R38  
 CLP CLASSIFICATION: Flam. Liq. 3, Acute tox. 4, Skin Irrit. 2  
 H226, H312, H315, H332  
 NOTE: S

NAME: ethyl 3-ethoxypropionate  
 IDENTIFICATION NOS.: CAS-no: 763-69-9 EC-no: 212-112-9  
 CONTENT: 5-15%  
 DSD CLASSIFICATION: -  
 CLP CLASSIFICATION: Flam. Liq. 3  
 H226, EUH066  
 NOTE: S

NAME: 2-butoxyethyl acetate  
 IDENTIFICATION NOS.: CAS-no: 112-07-2 EC-no: 203-933-3 Index-no: 607-038-00-2  
 CONTENT: 1-5%  
 DSD CLASSIFICATION: Xn; R20/21  
 CLP CLASSIFICATION: Acute Tox. 4  
 H312, H332  
 NOTE: S

NAME: Ethylbenzene  
 IDENTIFICATION NOS.: CAS-no: 100-41-4 EC-no: 202-849-4 Index-no: 601-023-00-4  
 CONTENT: 1-5%  
 DSD CLASSIFICATION: F; R11 Xn; R20  
 CLP CLASSIFICATION: Flam. Liq. 2, Acute tox. 4  
 H225, H332  
 NOTE: S

NAME: bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate  
 IDENTIFICATION NOS.: CAS-no: 52829-07-9 EC-no: 258-207-9  
 CONTENT: <1%  
 DSD CLASSIFICATION: -  
 CLP CLASSIFICATION: Eye Irrit. 2, Aquatic Chronic 2  
 H319, H411

(\*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.  
 S = Organic solvent

#### Other informations

## 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 person into fresh air and stay with them.

#### 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

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

#### 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.

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

No special

#### 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 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

Smoking, consumption of food or liquid, and storage of tobacco, food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

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

Always store in containers of the same material as the original. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and ventilated area, away from possible sources of combustion.

#### Storage temperature

Storage Temperature 0 to 35 ° C

### 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

Ethylbenzene (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 441 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 125 ppm | 552 mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

2-butoxyethyl acetate (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 20 ppm | - mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 50 ppm | - mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

Xylene, mixture of isomeres (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m<sup>3</sup>

Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin. )

n-butyl acetate (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 150 ppm | 724 mg/m<sup>3</sup>  
 Short-term exposure limit (15-minute reference period): 200 ppm | 966 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**

No data available.

**8.2. Exposure controls**

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

**General recommendations**

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom.

**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**

No specific requirements.

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



**Generally**

Only CE-marked personal protection equipment should be used.

**Respiratory Equipment**

If the ventilation at the work place is not sufficient, use a half or whole mask with an appropriate filter or an air-supplied respiratory protector. The choice depends on the concrete work situation and how long you will be using the product.

**Skin protection**

No specific requirements.

**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 face shield. Use safety glasses with a side shield as an alternative.

**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 | Colourless | Characteristic | -  | 40 - <60 Stokes | -                            |

**Phase changes**

|                    |                    |                         |
|--------------------|--------------------|-------------------------|
| Melting point (°C) | Boiling point (°C) | Vapour pressure (mm Hg) |
| -                  | 38                 | 7,43                    |

**Data on fire and explosion hazards**

|                 |               |                    |
|-----------------|---------------|--------------------|
| Flashpoint (°C) | Ignition (°C) | Self ignition (°C) |
|-----------------|---------------|--------------------|

23 -  
Explosion limits (Vol %) Oxidizing properties  
1 - 9 -

**Solubility**

Solubility in water n-octanol/water coefficient  
Insoluble -

**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

**10.4. Conditions to avoid**

Avoid static electricity.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidising agents, and strong catabolic 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        |
|-----------------------------------|---------|------|-------------------|---------------|
| n-butyl acetate                   | Mouse   | LD50 | Oral              | 6000 mg/kg    |
| n-butyl acetate                   | Rabbit  | LD50 | Skin              | > 17600 mg/kg |
| n-butyl acetate                   | Rat     | LC50 | Inhalation        | 390 ppm       |
| n-butyl acetate                   | Rat     | LD50 | Oral              | 10768 g/kg    |
| Xylene, mixture of isomeres       | Mouse   | LD50 | Intraperitoneal   | 1548 mg/kg    |
| Xylene, mixture of isomeres       | Rat     | LD50 | Oral              | 4300 mg/kg    |
| Xylene, mixture of isomeres       | Rat     | LD50 | Inhalation        | 5000 ppm      |
| Xylene, mixture of isomeres       | Rabbit  | LD50 | Dermal            | > 1,7 g/kg    |
| ethyl 3-ethoxypropionate          | Rabbit  | LD50 | Dermal            | 10 g/kg       |
| ethyl 3-ethoxypropionate          | Rat     | LD50 | Oral              | 3200 mg/kg    |
| 2-butoxyethyl acetate             | Mouse   | LD50 | Oral              | 3200 mg/kg    |
| 2-butoxyethyl acetate             | Rabbit  | LD50 | Skin              | 1500 mg/kg    |
| 2-butoxyethyl acetate             | Rat     | LD50 | Oral              | 2400 mg/kg    |
| Ethylbenzene                      | Mouse   | LD50 | Intraperitoneal   | 2,624 mL/kg   |
| Ethylbenzene                      | Rabbit  | LD50 | Skin              | 17,8 mL/kg    |
| Ethylbenzene                      | Rat     | LD50 | Oral              | 3500 mg/kg    |
| bis(2,2,6,6-tetramethyl-4-pipe... | Rat     | LD50 | Oral              | 3,7 g/kg      |
| bis(2,2,6,6-tetramethyl-4-pipe... | Rat     | LC50 | Inhalation        | 500 mg/m3     |
| Dimethyl ether                    | Rabbit  | LC50 | Inhalation        | 308 g/m3      |

**Skin corrosion/irritation**

No data available.

**Serious eye damage/irritation**

No data available.

**Respiratory or skin sensitisation**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

#### 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.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Substance                   | Species    | Test | Test duration | Result     |
|-----------------------------|------------|------|---------------|------------|
| n-butyl acetate             | Daphnia    | EC50 | 24 H          | 205 mg/L   |
| n-butyl acetate             | Fish       | LC50 | 96 H          | 100 mg/L   |
| n-butyl acetate             | Crustacean | LC50 | 48 h          | 32000 µg/L |
| Xylene, mixture of isomeres | Crustacean | EC50 | 48 H          | 90000 µg/L |
| Xylene, mixture of isomeres | Daphnia    | LC50 | 24 H          | 150 mg/L   |
| Xylene, mixture of isomeres | Fish       | LC50 | 96 H          | 13500 µg/L |
| Ethylbenzene                | Crustacean | LC50 | 96 H          | 13000 µg/L |
| Ethylbenzene                | Daphnia    | EC50 | 24 H          | 2200 µg/L  |
| Ethylbenzene                | Fish       | LC50 | 96 H          | 14000 µg/L |

### 12.2. Persistence and degradability

| Substance       | Biodegradability | Test              | Result            |
|-----------------|------------------|-------------------|-------------------|
| n-butyl acetate | Yes              | No data available | No data available |

### 12.3. Bioaccumulative potential

| Substance                   | Potential bioaccumulation | LogPow | BFC               |
|-----------------------------|---------------------------|--------|-------------------|
| n-butyl acetate             | No                        | 1,78   | No data available |
| Xylene, mixture of isomeres | Yes                       | 3,16   | No data available |

### 12.4. Mobility in soil

n-butyl acetate: Log Koc= 1,487982, Calculated from LogPow (High mobility potential. ). Xylene, mixture of isomeres: Log Koc= 2,580804, Calculated from LogPow (Moderate mobility potential. ). 2-butoxyethyl acetate: Log Koc= 1,274169, Calculated from LogPow (High mobility potential. ). Ethylbenzene: Log Koc= 2,572885, 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 ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability. This product contains substances which can accumulate in the food chain because they are bioaccumulative substances. Bioaccumulative substances can accumulate in fat tissue and are not easily secreted.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

#### Waste

EWC code  
08 01 11

#### 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

According to EC-Regulation 1907/2006 (REACH)

This product is covered by the conventions on dangerous goods.

#### 14.1 – 14.4

| ▼ ADR/RID | 14.1. UN number | 14.2. UN proper shipping name | 14.3. Transport hazard class(es) | 14.4. Packing group | Notes |      |                       |
|-----------|-----------------|-------------------------------|----------------------------------|---------------------|-------|------|-----------------------|
|           | 1950            | AEROSOLS, FLAMMABLE           | 2.1                              | -                   | -     |      |                       |
| ▼ IMDG    | UN-no.          | Proper Shipping Name          | Class                            | PG*                 | EmS   | MP** | Hazardous constituent |
|           | 1950            | AEROSOL,                      | 2.1                              | -                   | -     | -    | -                     |

#### 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. For exceptions, see the Danish Working Environment Authority's Executive Order No. 239 of 6 April 2005.

##### Demands for specific education

-

##### Additional information

-

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### Sources

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

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

R10 - Flammable.

R11 - Highly flammable.

R12 - Extremely flammable.

R20 - Harmful by inhalation.

R38 - Irritating to skin.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

R20/21 - Harmful by inhalation and in contact with skin.

H220 - Extremely flammable gas.

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

EUH066 - Repeated exposure may cause skin dryness or cracking.

#### 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.

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**

MJ /CHYMEIA

**Date of last essential change**

**(First cipher in SDS version)**

02-07-2013

**Date of last minor change**

**(Last cipher in SDS version)**

04-09-2013