

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

298 - Plastprimer, aerosol

Product no.

00.298

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

Plastprimer for 2k products

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

2016-04-13

SDS Version

1001.0

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 3; H229

Flam. Liq. 3; H226

Acute. Tox. 4; H312 + H332

STOT RE 2; H373

Eye Irrit. 2; H319

Skin Irrit. 2; H315

STOT SE 3; H335

See full text of H-phrases in section 2.2.

2.2. Label elements

▼ **Hazard pictogram(s)**



▼ **Signal word**

Warning

▼ **Hazard statement(s)**

- Pressurised container: May burst if heated. (H229)
- Flammable liquid and vapour. (H226)
- Harmful in contact with skin or if inhaled. (H312 + H332)
- May cause damage to organs through prolonged or repeated exposure. (H373)
- Causes serious eye irritation. (H319)
- Causes skin irritation. (H315)
- May cause respiratory irritation. (H335)

General

Prevention

-
- Do not breathe spray. (P260).
- Avoid breathing spray. (P261).
- Wear protective gloves/protective clothing/eye protection. (P280).
- Get medical advice/attention if you feel unwell. (P314).
- IF ON SKIN: Wash with plenty of water and soap. (P302+P352).
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340).

▼ **Safety statement(s)**

Response

Storage

Disposal

-

-

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

Ethylbenzene, heptan-2-one methyl amyl ketone, Xylene, mixture of isomers

▼ **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**

-

▼ **Additional warnings**

-

▼ **VOC**

VOC-MAX: 800 g/l, MAXIMUM VOC CONTENT (B/a1): 850 g/l.

SECTION 3: Composition/information on ingredients

▼ **3.1/3.2. Substances/Mixtures**

NAME: Xylene, mixture of isomers
 IDENTIFICATION NOS.: CAS-no: 1330-20-7 EC-no: 215-535-7 REACH-no: 01-2119488216-32 Index-no: 601-022-00-9
 CONTENT: 60-80%
 CLP CLASSIFICATION: Flam. Liq. 3, Acute Tox. 4, STOT RE 2, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2
 H226, H312, H315, H319, H332, H335, H373
 NOTE: S

NAME: Ethylbenzene
 IDENTIFICATION NOS.: CAS-no: 100-41-4 EC-no: 202-849-4 Index-no: 601-023-00-4
 CONTENT: 15-25%
 CLP CLASSIFICATION: Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3
 H225, H304, H332, H373, H412
 NOTE: S

NAME: Carbon dioxide
 IDENTIFICATION NOS.: CAS-no: 124-38-9 EC-no: 204-696-9
 CONTENT: 15-25%
 CLP CLASSIFICATION: Comp. Gas
 H280

NAME: heptan-2-one methyl amyl ketone

According to EC-Regulation 1907/2006 (REACH)

IDENTIFICATION NOS.:	CAS-no: 110-43-0 EC-no: 203-767-1 Index-no: 606-024-00-3
CONTENT:	5-10%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT SE 3 H226, H302, H332, H336
NOTE:	S

(*) 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) = 11 - 16,5
ATEmix(Dermal) = 1466,664 - 2199,996
ATEmix(oral) > 2000
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 4,8 - 0
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 4,8 - 7,2
N chronic (CAT 4) Sum = Sum(Ci/M(chronic))*25*0.1*10^CAT4 = 0,48 - 0,72

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 with water (20-30°C) for at least 15 minutes. Call 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.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

▼ 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 inhalation of vapours from waste material. Avoid direct contact with spilled substances. 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.

▼ 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**

heptan-2-one methyl amyl ketone (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 237 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 475 mg/m³

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

Carbon dioxide (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 5000 ppm | 9150 mg/m³

Short-term exposure limit (15-minute reference period): 15000 ppm | 27400 mg/m³

Ethylbenzene (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 441 mg/m³

Short-term exposure limit (15-minute reference period): 125 ppm | 552 mg/m³

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/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m³

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

▼ DNEL / PNEC

According to EC-Regulation 1907/2006 (REACH)

- DNEL (Xylene, mixture of isomeres): 77 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers
Remarks: workers
- DNEL (Xylene, mixture of isomeres): 289 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers
Remarks: workers - irritation (respiratory tract) - data from the registration
- DNEL (Xylene, mixture of isomeres): 180 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers
Remarks: workers - data from the registration
- DNEL (Xylene, mixture of isomeres): 1,6 mg/kg bw/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population
- DNEL (Xylene, mixture of isomeres): 108 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population
- DNEL (Xylene, mixture of isomeres): 14,8 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population
- DNEL (Xylene, mixture of isomeres): 289 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers
- DNEL (Xylene, mixture of isomeres): 174 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - General population
- DNEL (Xylene, mixture of isomeres): 174 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population
- PNEC (Xylene, mixture of isomeres): 0.327 mg/l
Exposure: Freshwater
- PNEC (Xylene, mixture of isomeres): 6,58 mg/L
Exposure: Sewage Treatment Plant
- PNEC (Xylene, mixture of isomeres): 0,327 mg/L
Exposure: Marine water
- PNEC (Xylene, mixture of isomeres): 0,327 mg/L
Exposure: Intermittent release
- PNEC (Xylene, mixture of isomeres): 12,46 mg/kg
Exposure: Freshwater sediment
- PNEC (Xylene, mixture of isomeres): 12,46 mg/kg
Exposure: Marine water sediment
- PNEC (Xylene, mixture of isomeres): 2,31 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**

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**

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 ³)
Aerosol	Colourless	Characteristic	-	-	-

▼ **Phase changes**

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	37,78	6,75

▼ **Data on fire and explosion hazards**

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
23	-	-
Explosion limits (Vol %)	Oxidizing properties	-
-	-	-

▼ **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

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
heptan-2-one methyl amyl ket...	Rat	LD50	Oral	1670 mg/kg
heptan-2-one methyl amyl ket...	Rabbit	LD50		12,6 mL/kg
heptan-2-one methyl amyl ket...	Guinea pig	LD50	Intraperitoneal	400 mg/kg
Ethylbenzene	Rat	LD50	Oral	3500 mg/kg
Ethylbenzene	Rabbit	LD50		17,8 mL/kg
Ethylbenzene	Guinea pig	LD50	Intraperitoneal	2,624 mL/kg
Xylene, mixture of isomeres	Rabbit	LD50		4350 mg/kg
Xylene, mixture of isomeres	Guinea pig	LD50	Oral	5251 mg/kg bw (female)
Xylene, mixture of isomeres	Rabbit	LD50	Dermal	
Xylene, mixture of isomeres	Rat	LD50	Inhalation	> 1,7 g/kg
Xylene, mixture of isomeres	Rat	LD50	Oral	5000 ppm
Xylene, mixture of isomeres	Guinea pig	LD50	Intraperitoneal	3523 mg/kg
				1548 mg/kg

▼ **Skin corrosion/irritation**

Causes skin irritation.

▼ **Serious eye damage/irritation**

Causes serious eye irritation.

▼ **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**

May cause respiratory irritation.

▼ **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.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

SECTION 12: Ecological information

▼ **12.1. Toxicity**

Substance	Species	Test	Test duration	Result
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According to EC-Regulation 1907/2006 (REACH)

heptan-2-one methyl amyl ket...	Fish	LC50	96 H	131 mg/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
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

▼ 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data available.			

▼ 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
Ethylbenzene	Yes	3,15	No data available
Xylene, mixture of isomeres	Yes	3,16	No data available

▼ 12.4. Mobility in soil

heptan-2-one methyl amyl ket...: Log Koc= 1,646362, Calculated from LogPow (High mobility potential).
Ethylbenzene: Log Koc= 2,572885, Calculated from LogPow (Moderate mobility potential). Xylene, mixture of isomeres: Log Koc= 2,580804, Calculated from LogPow (Moderate 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. 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

-

▼ 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	1950
14.2. UN proper shipping name	AEROSOLS, flammable
14.3. Transport hazard class(es)	2,1
14.4. Packing group	II
Notes	-
Tunnel restriction code	D

▼ IMDG

UN-no.	1950
Proper Shipping Name	AEROSOLS, flammable
Class	2,1
PG*	II
EmS	F-D, S-U
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**

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Additional information

Sources

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

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**

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

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

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

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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

kbb

Date of last essential change

(First cipher in SDS version)

2016-01-06

Date of last minor change

(Last cipher in SDS version)

2016-01-06