

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**1.1 Product Identifier:****Trade name: Bowramastic AVT-HB****1.2 Relevant identified uses of the substance or mixture and uses advised against:****Product category:** PC9a Coatings and paints, thinners, paint removers**Application of the substance / the mixture:** Professional use only**1.3 Details of the supplier of the safety data sheet:****Manufacturer / Importer / Supplier:**

HBV Coatings BV

Snoekbaars 1

2295 HJ KWINTSHEUL

Tel.: +31 (0)174-622455

Fax.: +31 (0)174-626473

info@hbvcoatings.nl

www.hbvcoatings.nl

Further information obtainable from: Product safety department.**1.4 Emergency telephone number:**

+31 174 622455

This telephone number can be reached during office hours.

SECTION 2: Hazards Identification**2.1 Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008:**

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements:**Labelling according to Regulation (EC) No 1272/2008:**

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms: GHS02, GHS05, GHS07, GHS08**Signal word:** Danger**Hazard-determining components of labelling:**

butyl alcohol (except tert-butyl alcohol)

xylene, mixture of isomers

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

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

(Contd. on page 2)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 1)

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:**Results of PBT and vPvB assessment:**

- PBT:** Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/Information on Ingredients

3.2 Chemical characterisation: Mixtures:**Description:** Solvent mixture**Components:**

CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene, mixture of isomers ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	2.5-10%
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1	butyl alcohol (except tert-butyl alcohol) ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	≤ 2.5%

Additional information: For the wording of the listed hazard phrases See section 16.

SECTION 4: First Aid Measures

4.1 Description of first aid measures:**General information:**

Seek medical treatment.

Never give anything by mouth to an unconscious person.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

If breathing is irregular or stopped, administer artificial respiration.

Seek immediate medical advice.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

If skin irritation continues, consult a doctor.

After eye contact:

If possible, remove contact lenses.

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

After ingestion:

Do not induce vomiting.

Rinse mouth and drink 2 glasses of water.

Seek immediate medical advice.

(Contd. on page 3)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 2)

4.2 Most important symptoms and effects, both acute and delayed:

Sore throat
Coughing
Headache
Dizziness
Gastric or intestinal disorders
Unconsciousness

4.3 Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.
After ingestion of the liquid, droplets of the product may enter the lungs (aspiration), whereby pneumonia can occur.

SECTION 5: Firefighting Measures**5.1 Extinguishing media:**

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents:

Water
Water with full jet

5.2 Special hazards arising from the substance or mixture:

In case of fire, the following can be released:

Carbon monoxide (CO)
Smoke

5.3 Advice for firefighters:**Protective equipment:**

Mouth respiratory protective device.
Wear self-contained respiratory protective device.

Additional information: Cool endangered tanks with water spray.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Keep away from ignition sources.
Ensure adequate ventilation
Avoid breathing vapor and contact with eyes, skin and clothing.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Shut off leaks, if possible without risk.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Collect leakage in sealable waste drums.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling:**

Be careful: SKIN EXPOSURE! STRICT HYGIENE!
Avoid exposure of (pregnant) women!
Avoid inhalation of vapors and contact with eyes, skin and clothing.
Do not eat, drink or smoke while working.
In the immediate vicinity of any potential exposure source, eye wash stations and emergency showers should be available.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

(Contd. on page 4)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 3)

Information about fire and explosion protection:

Vapors are heavier than air, can cover long distances along the ground from their source before ignite or explode.
Use explosion-proof apparatus / fittings and spark-proof tools.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and tanks:

All hazardous products must be placed above a sump pallet.
Store only in the original receptacle.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure Controls/Personal Protection

Additional information about design of technical facilities: No further data; see section 7.

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:	
1330-20-7 xylene, mixture of isomers	
WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
107-98-2 1-methoxy-2-propanol	
WEL (Great Britain)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk
IOELV (EU)	Short-term value: 568 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Skin
78-83-1 butyl alcohol (except tert-butyl alcohol)	
WEL (Great Britain)	Short-term value: 231 mg/m ³ , 75 ppm Long-term value: 154 mg/m ³ , 50 ppm
100-41-4 ethylbenzene	
WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
Ingredients with biological limit values:	
1330-20-7 xylene, mixture of isomers	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

(Contd. on page 5)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 4)

Respiratory protection:

Filter A

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

PVA gloves

Laminate LCP film

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

Breakthrough time >20' - Thickness >0.45mm

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

PVA gloves

Eye protection:



Tightly sealed goggles

Body protection: Anti-static clothing

Limitation and supervision of exposure into the environment: Prevent spills from reaching surface waters or soil.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

General Information:

Appearance:

Form:	Liquid.
Colour:	Black
Odour:	Aromatic
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	137 °C

Flash point: > 23 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 400 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 1.1 Vol %

(Contd. on page 6)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 5)

Upper:	7.0 Vol %
Vapour pressure at 20 °C:	6.7 hPa
Density at 20 °C:	1.1 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with:	
Water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	> 40 s (DIN-cup 6mm-ISO 2431:1993)
Solvent content:	
VOC (EU, 1999/13/EC)	500 g/l
9.2 Other information:	No further relevant information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity: Reacts violently with oxidizing agents, strong acids and strong bases.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

Forms explosive gas mixture with air.

The intense movement can cause an electrostatic charge.

10.4 Conditions to avoid:

Direct sunlight

Heat

Sparks-Open fire

10.5 Incompatible materials:

Oxidising Agents

Strong acids

Strong bases

Halogen Compounds

Rubber

Various plastics

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

1330-20-7 xylene, mixture of isomers

Oral	LD50	4300 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (rbt)
Inhalative	LC50/4 h	20 mg/l (Rat)

Primary irritant effect:

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

CMR effects (carcinogenic, mutagenic and reprotoxic):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

(Contd. on page 7)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 6)

Carcinogenicity: Based on available data, the classification criteria are not met.

Reprotoxicity: Based on available data, the classification criteria are not met.

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1 Toxicity:

Aquatic toxicity:

1330-20-7 xylene, mixture of isomers

EC50/48h	7.4 mg/l (Daphnia Magna)
LC50/96h	3.77 - 13.5 mg/l (Fish)

12.2 Persistence and degradability: Easily biodegradable

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contaminated packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport Information

14.1 UN-Number:

ADR/RID/ADN, IMDG, IATA

UN1263

14.2 UN proper shipping name:

ADR/RID/ADN:

1263 PAINT, special provision 640E

IMDG, IATA

PAINT

14.3 Transport hazard class(es):

ADR/RID/ADN:



Class:

3 (F1) Flammable liquids.

Label:

3

(Contd. on page 8)

Safety Data Sheet
according to 1907/2006/EC, Article 31


Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 7)

IMDG, IATA	
	
Class:	3 Flammable liquids.
Label:	3
14.4 Packing group: ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user: Danger code (Kemler): EMS Number:	Warning: Flammable liquids. 30 F-E, S-E
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Not applicable.
Transport/Additional information:	
ADR/RID/ADN: Limited quantities (LQ): Transport category: Tunnel restriction code: Remarks:	5L 3 D/E Packaging ≤ 450L: No ADR according 2.2.3.1.5
IMDG: Remarks:	Packaging ≤ 30 l: No IMDG acc. 2.3.2.5. Transport in accordance with 2.3.2.5 of the IMDG Code.
UN "Model Regulation":	UN 1263 PAINT, SPECIAL PROVISION 640E, 3, III

SECTION 15: Regulatory Information

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

Directive 2012/18/EU:

Named dangerous substances - ANNEX I: None of the ingredients are listed.

Seveso category: P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements: 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

This information is based on our present knowledge. This shall not constitute a guarantee for any properties of the product and shall not establish a legally valid contractual relationship.

Relevant phrases:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

(Contd. on page 9)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 30.01.2017

Version number 1

Revision: 30.01.2017

Trade name: Bowramastic AVT-HB

(Contd. of page 8)

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

Training hints: Take care of good information, instruction and training for users.

Department issuing SDS: Environment protection department.

Abbreviations and acronyms:

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC50: Effective Concentration, 50 percent

WEL: Workplace Exposure Limits

IOELVS: Indicative Occupational Exposure Limit Values

mPa.s: milliPascal per second

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

References:

This information is based on the current available data (suppliers of raw materials, chemistry maps, Annex VI)

See also the internet site: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

GB