

1 Identification

- **Product identifier**
 - Product number PD3/93
 - Trade name: **STAIN VEHICLE FOR SOLVENT BASE**
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
IVM Chemicals Srl
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441
 - **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
- **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

2-butoxyethanol
Solvent naphtha (petroleum), heavy arom.
ethylbenzene
xylene

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 1)

· **Hazard statements**

- H226 Flammable liquid and vapour.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

- P303+P361+P353 IF ON SKIN (or hair): Remove/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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

111-76-2	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 H227	50-74.9%
64742-94-5	Solvent naphtha (petroleum), heavy arom. ⚠ Asp. Tox. 1, H304 H227	15-19.9%
1330-20-7	xylene ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	12.5-15%
100-41-4	ethylbenzene ⚠ Flam. Liq. 2, H225 ⚠ Carc. 2, H351 ⚠ Acute Tox. 4, H332	2.5-4.99%










(Contd. on page 3)

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

		(Contd. of page 2)
91-20-3	naphthalene <div> <div></div> Carc. 2, H351 <div></div> Aquatic Acute 1, H400; Aquatic Chronic 1, H410 <div></div> Acute Tox. 4, H302 H227 </div>	1-2.49%
95-63-6	1,2,4-trimethylbenzene <div> <div></div> Flam. Liq. 3, H226 <div></div> Aquatic Chronic 2, H411 <div></div> Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 </div>	1-2.49%
108-67-8	mesitylene <div> <div></div> Flam. Liq. 3, H226 <div></div> Aquatic Chronic 2, H411 <div></div> STOT SE 3, H335 </div>	0.1-<0.5%

4 First-aid measures

· Description of first aid measures

· General information:

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

· After inhalation:

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:

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary). Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

Immediately call a doctor.

· Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by substances, refer to Section 11.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents: Alcohol resistant foam, CO, powder, water spray/mist.

· For safety reasons unsuitable extinguishing agents:

Do not use a jet water stream as it may scatter and spread fire.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 4)

USA

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 3)

· **Advice for firefighters**

· **Protective equipment:**

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

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

· **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.

7 Handling and storage

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.

Observe the label precautions, the expiration date for the use, if indicated, is from delivery date of goods.

In cases where there is no reported expiration date, it means that the product must be used within 8 months.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 5)

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 4)

· Control parameters

· Components with limit values that require monitoring at the workplace:

111-76-2 2-butoxyethanol

PEL Long-term value: 240 mg/m³, 50 ppm
Skin

REL Long-term value: 24 mg/m³, 5 ppm
Skin

TLV Long-term value: 97 mg/m³, 20 ppm
BEI

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 87 mg/m³, 20 ppm
BEI

91-20-3 naphthalene

PEL Long-term value: 50 mg/m³, 10 ppm

REL Short-term value: 75 mg/m³, 15 ppm
Long-term value: 50 mg/m³, 10 ppm

TLV Long-term value: 52 mg/m³, 10 ppm
Skin; BEI

95-63-6 1,2,4-trimethylbenzene

REL Long-term value: 125 mg/m³, 25 ppm

TLV Long-term value: 123 mg/m³, 25 ppm

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BEI 200 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: Butoxyacetic acid with hydrolysis

1330-20-7 xylene

BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

(Contd. on page 6)

USA

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 5)

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
-
Medium: end-exhaled air
Time: not critical
Parameter: Ethyl benzene (semi-quantitative)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **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.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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

· **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Fluid

· **Color:**

According to product specification

(Contd. on page 7)

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93
Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 6)

· Odor:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
· Melting point/Melting range:	Undetermined.	
· Boiling point/Boiling range:	136 °C (277 °F)	
· Flash point:	27 °C (81 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	240 °C (464 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits:		
· Lower:	1.0 Vol %	
· Upper:	10.6 Vol %	
· Vapor pressure at 20 °C (68 °F):	9.5 hPa (7 mm Hg)	
· Density at 20 °C (68 °F):	0.935 g/cm³ (7.803 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water):	Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	30 s (ISO 3 mm)	
· Solvent content:		
· VOC content:	88.3 % 824.9 g/l / 6.88 lb/gl	
· Solids content:	13.5 %	
· Other information (HAPS)		
1330-20-7	xylene	12,5-15%
100-41-4	ethylbenzene	2,5-4,99%
91-20-3	naphthalene	1-2,49%

10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Reacts with oxidizing agents.

(Contd. on page 8)

USA

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 7)

- Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rab)
Inhalative	LC50	1474 mg/l (Fish) (96 h)

64742-94-5 Solvent naphtha (petroleum), heavy arom.

Inhalative	LC50	>4.688 mg/l (rat/szczur/mouse/souris/Maus/ratón) (4 h)
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1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

100-41-4 ethylbenzene

Oral	LD50	3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	17800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

91-20-3 naphthalene

Oral	LD50	>2000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	>2500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Inhalative	LC50/4 h	>0.4 mg/l (rat/szczur/mouse/souris/Maus/ratón)

95-63-6 1,2,4-trimethylbenzene

Oral	LD50	5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
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· Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

Harmful in contact with skin.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
May be fatal if swallowed and enters airways.
Harmful
Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

111-76-2	2-butoxyethanol	3
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
7631-86-9	silicon dioxide, chemically prepared	3

(Contd. on page 9)

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 8)

91-20-3	naphthalene	2B
· <i>NTP (National Toxicology Program)</i>		
91-20-3	naphthalene	R
· <i>OSHA-Ca (Occupational Safety & Health Administration)</i>		
None of the ingredients is listed.		

12 Ecological information

- **Toxicity** Toxic to aquatic life with long lasting effects.

- *Aquatic toxicity:*

111-76-2 2-butoxyethanol

EC50 1550 mg/l (daphnia) (48 h)

1330-20-7 xylene

EC50 1 mg/l (daphnia)

91-20-3 naphthalene

EC50 3 - 10 mg/l (daphnia)

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

- *Ecotoxicological effects:*

- *Remark:* Toxic for fish

- *Additional ecological information:*

- *General notes:*

Water hazard class 2 (Self-assessment): hazardous for water

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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- *Recommendation:*

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

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

- *Uncleaned packagings:*

- *Recommendation:* Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- *DOT*

NA1263

- *IMDG, IATA*

UN1263

(Contd. on page 10)

USA

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93
Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 9)

· **UN proper shipping name**

· DOT

Paint

· IMDG, IATA

PAINT

· **Transport hazard class(es)**

· DOT



· Class

3 Flammable liquids

· Label

3

· Class

3 Flammable liquids

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids

· Label

3

· **Packing group**

· DOT, IMDG, IATA

III

· **Environmental hazards:**

· Marine pollutant:

No

· **Special precautions for user**

Warning: Flammable liquids

· Danger code (Kemler):

30

· EMS Number:

F-E, S-E

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

Not applicable.

· **Transport/Additional information:**

· Remarks:

Classification: 3 ADR P.G. III UN 1866
RESIN SOLUTION when packages > 450
liters

IMDG 3 P.G. III UN 1866
RESIN SOLUTION when packages > 30
liters

· IMDG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging:
30 ml

Maximum net quantity per outer
packaging: 1000 ml

· UN "Model Regulation":

UN1263, Paint, special provision 640E, 3, III

USA

(Contd. on page 11)

Product number PD3/93

Trade name: STAIN VEHICLE FOR SOLVENT BASE

(Contd. of page 10)

15 Regulatory information

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

Requirements of Federal Register

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings) :

111-76-2	2-butoxyethanol
1330-20-7	xylene
100-41-4	ethylbenzene
91-20-3	naphthalene
95-63-6	1,2,4-trimethylbenzene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

100-41-4	ethylbenzene
91-20-3	naphthalene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

111-76-2	2-butoxyethanol	NL
1330-20-7	xylene	I
100-41-4	ethylbenzene	D
91-20-3	naphthalene	C, CBD

· TLV (Threshold Limit Value established by ACGIH)

111-76-2	2-butoxyethanol	A3
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
91-20-3	naphthalene	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

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

USA

(Contd. on page 12)

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 08/27/2014

Reviewed on 08/27/2014

Product number PD3/93**Trade name: STAIN VEHICLE FOR SOLVENT BASE**

(Contd. of page 11)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** IVM Chemicals Srl
- **Contact:** See emergency phone
- **Date of preparation / last revision** 08/27/2014 / 9
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - 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)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - Flam. Liq. 2: Flammable liquids, Hazard Category 2
 - Flam. Liq. 3: Flammable liquids, Hazard Category 3
 - : Flammable liquids, Hazard Category 4
 - Acute Tox. 4: Acute toxicity, Hazard Category 4
 - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 - Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
 - Carc. 2: Carcinogenicity, Hazard Category 2
 - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 - Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 - Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
 - Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 - Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
 - Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
- **Sources**
 - Directive 1999/45/EC and following amendments
 - Directive 67/548/EEC and following amendments and adjustments
 - Agency ECHA web site
 - INRS Fiche Toxicologique
 - IARC International agency for research on cancer

USA