TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 02.10.2014 Revision No: 1,02

Asplit® VE Solution

00359-1182



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

# 1.1. Product identifier

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Art.-No.

592 0700, 592 0705, 592 0710, 592 0711, 592 0712, 592 0713, 592 0714

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

#### Use of the substance/mixture

Laminate coat

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

Company name: TIP TOP Oberflaechenschutz Elbe GmbH

Street: Heuweg 4

Place: D-06886 Wittenberg
Telephone +49(0)3491/635-50
Telefax +49(0)3491/635-552
Responsible for the safety data sheet: sds@gbk-ingelheim.de

**1.4. Emergency telephone** INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

number: England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24

24

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful, Xi - Irritant

R phrases: Flammable.

Harmful by inhalation. Irritating to eyes and skin.

## **GHS** classification

Hazard categories:

Flammable liquid: Flam. Liq. 3 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 1

Hazard Statements:

Flammable liquid and vapour.

Harmful if inhaled.

May cause respiratory irritation. Causes serious eye irritation.

Causes skin irritation.

Causes damage to organs through prolonged or repeated exposure.

# 2.2. Label elements

# Hazardous components which must be listed on the label

Styrene

Signal word: Danger

Pictograms: GHS02-GHS07-GHS08







# **Hazard statements**

H226 Flammable liquid and vapour.

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H332 Harmful if inhaled.

H335 May cause respiratory irritation. H319 Causes serious eye irritation.

H315 Causes skin irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

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

P260 Do not breathe vapour.

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P405 Store locked up.

## 2.3. Other hazards

Vapours may form explosive mixture with air.

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

#### 3.2. Mixtures

## **Chemical characterization**

Epoxide-vinyl ester-resin in styrene

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
202-851-5	Styrene	< 45 %
100-42-5	Xn - Harmful, Xi - Irritant R10-20-36/38	
601-026-00-0	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1; H226 H332 H315 H319 H335 H372 H304	
01-2119457861-32		
201-204-4	Methacrylic acid	< 2,5 %
79-41-4	C - Corrosive, Xn - Harmful R21/22-35	
607-088-00-5	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, STOT SE 3; H302 H312 H332 H314 H335	
01-2119463884-26		
200-880-8	Tetramethylammonium chloride	< 0,5 %
75-57-0	T - Toxic, Xi - Irritant, N - Dangerous for the environment R24/25-38-51-53	
	Acute Tox. 2, Acute Tox. 3, Skin Irrit. 2, STOT SE 1, Aquatic Chronic 2; H300 H311 H315 H370 H411	
01-2119970924-26		
918-668-5	Solvent naphta (petroleum)	< 0,5 %
64742-95-6	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R10-37-51-53-65-66-67	
649-356-00-4	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066	
01-2119455851-35		

Full text of R-, H- and EUH-phrases: see section 16.

# **Further Information**

According to note P to the regulation (EC) no. 1272/2008, "Solvent naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

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#### **General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

Take away from danger area and lay down affected person.

#### After inhalation

Move to fresh air in case of accidental inhalation of vapours.

Seek medical treatment immediately.

#### After contact with skin

Wash off immediately with soap and plenty of water.

Treat subsequently with skin cream.

Consult a doctor if skin irritation persists.

## After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult (eye) doctor immediately.

# After ingestion

Do not induce vomiting.

Summon a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Induce vomiting only upon the advice of a physician.

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

Harmful by inhalation.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure. (the ear)

Attention. Beware, danger of aspiration.

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

Treat symptoms.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

## Unsuitable extinguishing media

Full water jet.

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

Fire may produce:

Carbon monoxide and carbon dioxide

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

# **Additional information**

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator.

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Keep away sources of ignition.

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#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

## 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

# Advice on safe handling

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Use only in thoroughly ventilated areas.

Provide suitable extraction at the processing machines.

### Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Do not smoke.

Take precautionary measures against static discharges.

Use only explosion-proof equipment.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

Avoid temperatures above 50°C.

#### Advice on storage compatibility

Incompatible with:

Oxidizing agents, Metal halogenides, Peroxides

# Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

## 7.3. Specific end use(s)

Laminate coat

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

## **Exposure limits (EH40)**

Substance	ppm	mg/m³	fibres/ml	Category	Origin
Methacrylic acid	20	72		TWA (8 h)	WEL
	40	143		STEL (15 min)	WEL
Styrene	100	430		TWA (8 h)	WEL
	250	1080		STEL (15 min)	WEL
Fitanium dioxide, respirable	-	4		TWA (8 h)	WEL
	-	-		STEL (15 min)	WEL
3	ethacrylic acid tyrene	tyrene 20  20  40  250	tyrene 20 72 40 143 250 1080	tyrene 20 72 40 143 tyrene 250 1080	tyrene 20 72 TWA (8 h)  40 143 STEL (15 min)  TWA (8 h)  TWA (8 h)

# 8.2. Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Pay attention to explosion protection guidelines.

# Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

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When using do not eat, drink or smoke.

Treat subsequently with skin cream.

Remove and wash contaminated clothes before re-use.

## Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

## Hand protection

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

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## Skin protection

Long sleeved clothing (EN 368).

Solvent-resistant apron (EN 467).

## Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 141).

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Various

Odour: Pungent

145 °C Initial boiling point and boiling range:

Flash point: 29,4 °C

0 vol. % Lower explosion limits:

Upper explosion limits: 6 vol. %

Vapour pressure: 8,53 hPa Calculated

(at 20 °C)

1,078 g/cm<sup>3</sup> Density: **Immiscible** 

Water solubility:

(at 20 °C) 490 °C Ignition temperature:

Viscosity / kinematic: > 20,5 mm<sup>2</sup>/s

(at 40 °C)

#### 9.2. Other information

No data available.

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No decomposition if stored and applied as directed.

# 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Reactions with oxidizing agents.

Reactions with peroxides.

# 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

Avoid temperatures above 50°C.

If heating up polymerisation.

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# 10.5. Incompatible materials

Oxidizing agents, Metal halogenides, Peroxides

## 10.6. Hazardous decomposition products

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

Carbon monoxide and carbon dioxide.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### **Acute toxicity**

Harmful if inhaled.

No toxicological data available.

Styrene

LD50/oral/rat: 5000 mg/kg LD50/dermal/rat: > 2000 mg/kg LC50/inhalation/rat: 11,8 mg/l/4h

## Irritation and corrosivity

Causes serious eve irritation.

Causes skin irritation.

#### Sensitising effects

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

# STOT-single exposure

May cause respiratory irritation. (Styrene), (Methacrylic acid ), (Solvent naphta (petroleum) )

#### Severe effects after repeated or prolonged exposure

Causes damage to organs through prolonged or repeated exposure. (Styrene)

# Carcinogenic/mutagenic/toxic effects for reproduction

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

#### Aspiration hazard

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

#### Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

## **Practical experience**

#### Other observations

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecological data are not available.

Styrene

LC50/Pimephales promelas/96 h = 4,02 mg/kg

EC50/Daphnia magna/48 h = 4,7 mg/kg

EC50/Pseudokirchneriela subcapitata/72 h > 4,9 mg/kg

## 12.2. Persistence and degradability

No data available.

# 12.3. Bioaccumulative potential

No data available.

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

## 12.6. Other adverse effects

Hazardous water pollutant.

Product is toxic to fish and their nutrient animals.

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#### **Further information**

Do not flush into surface water or sanitary sewer system.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

## Waste disposal number of waste from residues/unused products

080409

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and

sealants containing organic solvents or other dangerous substances

Classified as hazardous waste.

## Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

# **SECTION 14: Transport information**

Land transport (ADR/RID)

**14.1. UN number:** UN1866

14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es):314.4. Packing group:III

Hazard label: 3



Classification code:

Limited quantity: 5 L / 30 kg

Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

Inland waterways transport (ADN)

**14.1. UN number:** UN1866

14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1

Limited quantity: 5 L / 30 kg

Marine transport (IMDG)

**14.1. UN number:** UN1866

14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3

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3

Marine pollutant: No Limited quantity: 5 L / 30

Limited quantity: 5 L / 30 kg EmS: 5 L / So kg

Air transport (ICAO)

**14.1. UN number:** UN1866

14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Limited quantity Passenger: Y344 / 10 L

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

# **SECTION 15: Regulatory information**

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

**EU** regulatory information

1999/13/EC (VOC): < 5 %; < 90 g/l

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment

restrictions for child bearing mothers and nursing.

# 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

# Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

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IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose

LC = Lethal concentration EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

## Relevant R-phrases (Number and full text)

10	Flammable.
10	i iaiiiiiabi <del>c</del> .

20 Harmful by inhalation.

21/22 Harmful in contact with skin and if swallowed.24/25 Toxic in contact with skin and if swallowed.

35 Causes severe burns.
36/38 Irritating to eyes and skin.
37 Irritating to respiratory system.

38 Irritating to skin.

51 Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

# Relevant H- and EUH-phrases (Number and full text)

H226 Flammable liquid and vapour.

H300 Fatal if swallowed. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

## **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)