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

1.1 Product identifier

Trade name

: Dörr-Titanol[®] V

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

Product use : Pretreatment agent, Product is not intended for consumer use

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Schweiz AG
		Tüffenwies 16
		8048 Zürich
Telephone	:	+41 58 436 40 40
Telefax	:	-
E-mail address of person	:	EHS@ch.sika.com
responsible for the SDS		

1.4 Emergency telephone number

Tox Info Suisse CH-8028 Zurich +41(0)44 251 51 51 / Speed calling: 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127 Flammable liquids, Category 3	72/2008) H226: Flammable liquid and vapour.			
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.			
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air- ways.			
Label elements				
Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms : Variable Variable Variable Variable				

Danger

2

Signal word

2.2



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Hazard statements	: H226 H304 H336	Flammable liquid and vapo May be fatal if swallowed a May cause drowsiness or o	and enters airways.
Precautionary statements	Preventio	on:	
	P210	Keep away from heat open flames and othe smoking.	, hot surfaces, sparks, r ignition sources. No
	P261	Avoid breathing mist of	or vapours.
	Respons	e:	
	P301 + P	310 IF SWALLOWED: Imi POISON CENTER/ do	
	P303 + P	361 + P353 IF ON SKIN (or ately all contaminated with water.	,
	P331 P370 + P	Do NOT induce vomit 378 In case of fire: Use dr alcohol-resistant foar	y sand, dry chemical or

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

oomponomo		1	
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
Hydrocarbons, C9-C11, n-	Not Assigned	Flam. Liq. 3; H226	>= 40 - < 60
alkanes, isoalkanes, cyclics, <2%	919-857-5	STOT SE 3; H336	
aromatics	01-2119463258-33-	(Central nervous	
	XXXX [corresponding	system)	
	group CAS 64742-48-	Asp. Tox. 1; H304	
	9]	-	



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Substances with a we	orkplace exposure limit :	
Asphalt	8052-42-4	>= 40 - < 60
	232-490-9	
	01-2119480172-44-	
	XXXX	
		· ·

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	 Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	 Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms	and effects, both acute and delayed
Symptoms	 Aspiration may cause pulmonary oedema and pneumonitis. Loss of balance Vertigo See Section 11 for more detailed information on health effects and symptoms.
Risks	: Risk of serious damage to the lungs (by aspiration).
	May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.
4.3 Indication of any immediate	modical attention and special treatment needed

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Water High volume water jet
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas.
		tions. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions	:	Prevent product from entering drains.
		If the product contaminates rivers and lakes or drains inform
		respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Follow standard hygiene measures when handling chemical products

Advice on protection against : Use explosion-proof equipment. Keep away from heat/ sparks/ fire and explosion : open flames/ hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Store in accord- ance with local regulations.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.
Creatic and waa(a)		

7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parame-	Basis *
		of exposure)	ters *	
Asphalt	8052-42-4	TWA	5 mg/m3	CH SUVA
	es, which are e tional skin reso	ation: Toxic by skin easily absored throu option a substancial ne airways., Carcinc	igh the skin, can g higher risk compa	ive by addi- ared to only



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STEL 20 mg/m3 CH SUVA

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment				
Eye/face protection :	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water			
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.			
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.			
Skin and body protection :	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.			
Respiratory protection :	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.			
Environmental exposure controls				
General advice	Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Physical state Colour	:	liquid black	
Odour	:	solvent-like	
Melting point/range / Freezing point	:	No data available	
Boiling point/boiling range	:	> 150 °C	
Flammability (solid, gas)	:	No data available	
Upper/lower flammability or o	exp	plosive limits	
Upper explosion limit / Up- per flammability limit	:	Upper explosion limit 6,4 %(V)	
Lower explosion limit / Lower flammability limit	:	Lower explosion limit 0,67 %(V)	
Flash point	:	ca. 36 °C Method: closed cup	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
рН	:	Not applicable substance/mixture is non-soluble (in water)	
Viscosity Viscosity, kinematic	:	< 20,5 mm2/s (40 °C)	
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	No data available	
Density	:	ca. 0,90 g/cm3 (20 °C)	

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Relative vapour density	No data available	
Particle characteristics	No data available	
9.2 Other information No data available		
SECTION 10: Stability and react	ivity	
 10.1 Reactivity No dangerous reaction known ur 10.2 Chemical stability The product is chemically stable. 	der conditions of normal use.	
10.3 Possibility of hazardous react	ons	
Hazardous reactions	Stable under recommended storage conditions.	
	Vapours may form explosive mixture with air.	
10.4 Conditions to avoid		
Conditions to avoid	Heat, flames and sparks.	
10.5 Incompatible materials Materials to avoid	No data available	
10.6 Hazardous decomposition pro	ducts	
	No hazardous decomposition products are know	/n.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified due to lack of data.

Components:

Hydrocarbons, C9-C11	l, n-alkanes, isoalkanes	s, cyclics, <2% aromatics:
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Acute oral toxicity :	LD50 Oral (Rat): > 5.000 mg/kg
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Acute dermal toxicity	:	LD50 Dermal (Rabbit): 3.160 mg/kg
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Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitisation

Skin sensitisation Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
aquatic invertebrates		Exposure time: 48 h

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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

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

Product:		
Assessment	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects		
Product:		
Additional ecological infor- mation	:	There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste code Switzerland VeVA/LVA	:	08 01 11 -

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Contaminated packaging : 15 01 10 [S] packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 UN n	umber or ID number			
ADR		:	UN 1139	
IMDG	i	:	UN 1139	
ΙΑΤΑ		:	UN 1139	
14.2 UN p	roper shipping name			
ADR		:	COATING SOLUTIO	N
IMDG	i	:	COATING SOLUTIO	N
ΙΑΤΑ		:	Coating solution	
14.3 Trans	sport hazard class(es)			
			Class	Subsidiary risks
ADR		:	3	
IMDG	i	:	3	
ΙΑΤΑ		:	3	
14.4 Pack	ing group			
Class Hazaı Label	ng group ification Code rd Identification Number s el restriction code	:	III F1 30 3 (D/E)	
IMDG Packi Label EmS	ng group s	:	III 3 F-E, <u>S-E</u>	
Packi aircra Packi	ng instruction (LQ) ng group	:	366 Y344 III Flammable Liquids	
Packi ger ai Packi	(Passenger) ng instruction (passen- rcraft) ng instruction (LQ) ng group	:	355 Y344 III	

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Labels	:	Flammable Liquids
14.5 Environmental hazards		
ADR Environmentally hazardous	:	no
IMDG Marine pollutant	:	no
IATA (Passenger) Environmentally hazardous	:	no
IATA (Cargo) Environmentally hazardous	:	no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) : Not applicable Schedules of Toxic Chemicals and Precursors

REACH Information:

All substances contained in our Products are

- registered by our upstream suppliers, and/or
- registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	None of the components are listed (=> 0.1 %).
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable

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PIC Ordinance, ChemPICO (8	314.82)	: Not applicable
Chemical Risk Reduction Ord 814.81)	inance (ORRChem, SR	: See respective Annex to the Chemi- cal Risk Reduction Ordinance (ORRChem, 814.81) for Conditions of Restriction.
Seveso III: Directive 2012/18/ jor-accident hazards involving		nent and of the Council on the control of ma-
P5c	FLAMMABLE LIQUID	3
Volatile organic compounds	(VOCV)	ax for volatile organic compounds ounds (VOC) content: 46,5% w/w
	emissions (integrated	of 24 November 2010 on industrial pollution prevention and control) pounds (VOC) content: 46,5% w/w

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of H-Statements				
H226	:	Flammable liquid and vapour.		
H304	:	May be fatal if swallowed and enters airways.		
H336	:	May cause drowsiness or dizziness.		
Full text of other abbreviations				
Asp. Tox.	:	Aspiration hazard		
Flam. Liq.	:	Flammable liquids		
STOT SĖ	:	Specific target organ toxicity - single exposure		
CH SUVA	:	Switzerland. Limit values at the work place		
CH SUVA / TWA	:	Time Weighted Average		
CH SUVA / STEL	:	Short Term Exposure Limit		
ADR	:	European Agreement concerning the International Carriage of		
		Dangerous Goods by Road		
CAS	:	Chemical Abstracts Service		
DNEL	:	Derived no-effect level		
EC50	:	Half maximal effective concentration		
GHS	:	Globally Harmonized System		
ΙΑΤΑ	:	International Air Transport Association		
IMDG	:	International Maritime Code for Dangerous Goods		
LD50	:	Median lethal dosis (the amount of a material, given all at		
		once, which causes the death of 50% (one half) of a group of		
		test animals)		
LC50	:	Median lethal concentration (concentrations of the chemical in		
		air that kills 50% of the test animals during the observation		
		period)		
MARPOL	:	International Convention for the Prevention of Pollution from		
auretry OLL 40000001400		40.1		

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OEL	 Ships, 1973 as modified by the Protocol of 1978 Occupational Exposure Limit Persistent, bioaccumulative and toxic Predicted no effect concentration Regulation (EC) No 1907/2006 of the European Parliament
PBT	and of the Council of 18 December 2006 concerning the Reg-
PNEC	istration, Evaluation, Authorisation and Restriction of Chemi-
REACH	cals (REACH), establishing a European Chemicals Agency
SVHC	Substances of Very High Concern
vPvB	Very persistent and very bioaccumulative

Further information

Classification of the mixtur	e:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Calculation method

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

CH / EN