











# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## LIQUIDIP

Dipping Hardener

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### Section 11: Toxicological information

#### 11.1 Information on toxicological effects:

##### Acute toxicity:

For this mixture is no data available. Please find this information in the listing of the component/components below in the MSDS.

##### ATE tested:

CAS No                      Chemical name

**64-17-5**                      **ethanol**

<u>Exposure routes</u>	<u>Method</u>	<u>Dose</u>	<u>Species</u>	<u>Source</u>
oral	LD50	10.470 mg/kg	Rat	OECD 401
dermal	LD50	> 2000 mg/kg	Rabbit	OECD 402
inhalative (vapour)	LC50	(51mg/lh)	Rat,4 h	OECD 403

NOAEL: 1730 mg/kg bw/day (Rat, female) (Oral; 90-day) (OECD Test Guideline 408)

Target Organs: Liver

NOAEL: > 20 mg/l (Rat, male) (Inhalation; 21 days) (OECD Test Guideline 403)

CAS No                      Chemical name

**8050-09-7**                      **colophony**

<u>Exposure routes</u>	<u>Method</u>	<u>Dose</u>	<u>Species</u>	<u>Source</u>
oral	LD50	7.500-10.000 mg/kg	Rat male	
oral	LD50	5.000-10.000 mg/kg	Rat female	

##### Irritation and corrosivity:

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

##### Sensitising effects:

May cause an allergic skin reaction.

##### STOT-single exposure:

May cause respiratory irritation

##### Severe effects after repeated or prolonged exposure:

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

##### Carcinogenic /mutagenic/toxic effects for reproduction:

Contains no ingredient listed as a carcinogen.

It is not considered carcinogenic mutagenic and toxic.

##### Aspiration hazard:

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

##### Additional information on tests:

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

### Section 12: Ecological information

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#### 12.1. Toxicity:

CAS No      Chemical name

**64-17-5 ethanol**

<u>Aquatic toxicity</u>	<u>Method</u>	<u>Dose</u>	<u>(h)-(d)/Species</u>	<u>Source</u>
<b>Acute fish toxicity</b>	LC50	15300 mg/l	96 h/Pimephales promelas; fathead minnow (flow-through test)	US-EPA
	LC50	11200 mg/l	24 h/Salmon gairdneri (flow-through test)	US-EPA
	LC50	13000 mg/l	96 h/Oncorhynchus mykiss	OECD 203
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50	858 mg/l	24 h/Artemia salina (Marin water)	OECD 202
	EC50	12340 mg/l	48 h/Daphnia magna; water flea (fresh Water)	ASTM E 729-80
	LC50	5012 mg/l	48 h/Ceriodaphnia dubia; water flea (static test, fresh water)	ASTM E 729-80
<b>algae</b>	EC50	275 mg/l	72 h/Chlorella vulgaris; Fresh water algae; (static test; fresh water)	OECD 201
	EC10	11,5 mg/l	72 h/Chlorella vulgaris; Fresh water algae; (static test)	OECD 201
<b>Bacteria</b>	EC50	5800 mg/l	4 h(Paramecium caudatum)	
<b>Chronic toxicity</b>				
<b>Fish</b>	NOEC	245 mg/l	30 d/QSAR	
<b>Aquatic</b>	NOEC	9,6 mg/l	10 d/Ceriodaphnia dubia; water flea	
<b>Invertebrates</b>	NOEC	79 mg/l	12 d/Palaemonetes pugio (static test)	

CAS No      Chemical name

**8050-09-7 colophony**

<u>Aquatic toxicity</u>	<u>Method</u>	<u>Dose</u>	<u>(h)-(d)/Species</u>	<u>Source</u>
<b>Acute fish toxicity</b>	NOELR	1000 mg/l		
	LL50	>1000 mg/l	96 h/Danio rerio; zebra fish	
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EL50	911 mg/l	48 h/Daphnia magna; Water flea	
<b>algae</b>	EL50	>1000 mg/l	72 h algae	
	NOELR	>1000 mg/l	algae	

#### 12.2. Persistence and degradability:

**CAS-No. 64-17-5 ethanol**

**Persistence:** Related to: Water non-significant hydrolysis  
**Biodegradability:** 97 % (Exposure Time: 28 d)(OECD Test Guideline 301B)  
Reilly biodegradable

**CAS-No. 8050-09-7 colophony**

**Persistence and degradability:** 64 % (Exposure Time: 28 d) Not readily biodegradable.  
The 10 day time window criterion is not fulfilled.

#### 12.3. Bioaccumulative potential:

**CAS-No. 64-17-5 ethanol:**

log Kow -0,3 BCF: 0,66 Does not bio accumulate.

**CAS-No. 8050-09-7 colophony:**

BCF: 56,3 Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible. log Pow > 3

#### 12.4. Mobility in soil:

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**CAS-No. 64-17-5 ethanol:** The product is mobile in water environment.

**CAS-No. 8050-09-7 colophony:** Practically insoluble in water.

#### 12.5. Results of PBT and vPvB assessment:

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

#### 12.6 Other adverse effects:

Do not flush into surface water or sanitary sewer system.

### Section 13: Disposal considerations

#### 13.1 Waste treatment methods:

##### **Advice on disposal:**

Disposal together with normal waste is not allowed. Can be incinerated, when in compliance with local regulations. Do not empty into drains.

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

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

##### **Uncleaned packaging:**

Empty remaining contents. Risk of explosion. Do not burn, or use a cutting torch on, the empty drum. Offer rinsed packaging material to local recycling facilities. Packaging's that cannot be cleaned are to be disposed of in the same manner as the product.

### Section 14: Transport information

#### 14.1. – 14.4. UN number; UN proper shipping name; Transport hazard class(es);

##### Packing group:

##### **Road ADR/Railway RID:**

14.1 UN no.:	1170
14.2 Proper Shipping Name:	ETHANOL SOLUTION
14.3 Transport hazard class(es):	3
14.4 Packaging Group:	II
Hazard label:	3
Classification code:	F1
Limited quantities (LQ):	1L
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

##### **Inland waterways transport (ADN):**

14.1 UN no.:	1170
14.2 Proper Shipping Name:	ETHANOL SOLUTION
14.3 Transport hazard class(es):	3
14.4 Packaging Group:	II
Hazard label:	3
Classification code:	F1
Limited quantities (LQ):	1L

##### **Transport by sea IMDG-Code:**

14.1 UN no.:	1170
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14.2 Proper Shipping Name: ETHANOL SOLUTION  
14.3 Transport hazard class(es): 3  
14.4 Packaging Group: II  
Hazard label: 3  
Classification code: F1  
Limited quantities (LQ): 1L

#### **Air transport ICAO-TI/IATA-DGR:**

14.1 UN no.: 1170  
14.2 Proper Shipping Name: ETHANOL SOLUTION  
14.4 Packaging Group: II  
Hazard label: 3  
Classification code: F1  
Limited quantity-Passenger: 1L

#### **14.5. Environmental hazards:**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user:** not applicable

#### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:**

Not applicable.

### Section 15: Regulatory information

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

##### **National regulatory information:**

WGK (DE): slightly water endangering;  
Self-classification according VwVwS of 17 May 1999, Annex 4  
Störfallverordnung(DE): Falls under the German StörfallV. 7b.  
Directive 1999/13/EC: 78 %

#### **15.2 Chemical safety assessment:**

Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

EU. REACH, Annex XVII, Point Nos.: 40; Listed  
Marketing and Use Restrictions (Regulation 1907/2006/EC)

EU. Regulation No EC Number: 200-578-6; Listed  
1451/2007 [Biocides], Annex I, OJ (L 325)

### Section 16: Other information

The details in this document are based on the state of our knowledge at the time of revision.

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They do not constitute an assurance of the described product properties in terms of statutory warranty requirements. The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

#### Relevant P-phrases (Number and full text):

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P280 Wear protective gloves/ eye protection/ face protection.
- P303 + P361 + P353  
IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.
- P370 + P378  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. ^

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

- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

#### Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized 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)
- LC<sub>50</sub>: Lethal concentration, 50 percent
- LD<sub>50</sub>: Lethal dose, 50 percent