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SECTION 01: Identification of the substance/mixture and of the company undertaking

• 1.1 Product identifier

· Trade name:

Dipping lacquer for incandescent lamps

SDB-group

15911

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use

SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC9a Coatings and paints, thinners, paint removers

· Process category

PROC13 Treatment of articles by dipping and pouring

- Application of the substance / the preparation Lacquer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Alfred Clouth Lackfabrik GmbH & Co. KG Otto-Scheugenpflug-Straße 2 63073 Offenbach/Main

Deutschland

Tel + 49 69-89 00 7-0 / Fax + 49 69-89 00 7-143

E-Mail: info@clou.de / www.clou.de

· Further information obtainable from:

Laboratory:

Telephone: + 49 69/89 00 7 - 0 Fax: + 49 69/89 00 7 - 143

1.4 Emergency telephone number:

Giftinformationszentrum - Nord

Universitätsklinikum Bereich Humanmedizin Robert Koch Str.40 37075 Göttingen Deutschland

Tel.: + 49 551 / 1 92 40

SECTION 02: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02

Flam. Liq. 2 - H225 Highly flammable liquid and vapour.



Eye Dam. 1 - H318 Causes serious eye damage.

(continued on page 2)

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(continued of page 1)



GHS07

STOT SE 3 - H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC





F Highly flammable Xi Irritant

R 11

Highly flammable.

R 36

Irritating to eyes.

R 52/53

Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R 66

Repeated exposure may cause skin dryness or cracking.

R 67

Vapours may cause drowsiness and dizziness.

• Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

• Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008





GHS05



GHS02

GHS07

Signal word

Danger

· Hazard-determining components of labelling:

n-butyl acetate / isopropyl acetate / butanol / butan-1-ol

Hazard statements

H225 Highly flammable liquid and vapour.

H318-EUH066 Causes serious eye damage. Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear eye protection / face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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.

2.3 Other hazards

· Results of PBT and vPvB assessment

(continued on page 3)

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(continued of page 2)

PRODUCT: Dipping lacquer for incandescent lamps

• PBT:

Not applicable.

vPvB:

Not applicable.

SECTION 03: Composition/information on ingredients

- 3.2 Mixtures
- Description:

Mixture of the substances listed below with nonhazardous additions.

• Dangerous components:

CAS NO. Description Index R-phrases %
107-98-2 1-methoxy-2-propanol 10-25

EC number: 203-539-1

10-67

Flam. Liq. 3 - H226; STOT SE 3 -

Record number 01-2119457435-35

H336

123-86-4 n-butyl acetate 25-50

EC number: 204-658-1

Record number 01-2119485493-29

10-66-67

Flam. Liq. 3 - H226; STOT SE 3 -

H336

108-21-4 isopropyl acetate 10-25

EC number: 203-561-1

Record number 01-2119537214-46

🤴 F 🗶 Xi

11-36-66-67

🚸 Flam. Liq. 2 - H225; 🕚 Eye Irrit.

2 - H319-EUH066, STOT SE 3 - H336

67-63-0 propan-2-ol 2,5-10

EC number: 200-661-7

Record number 01-2119457558-25

ð F 🗙 Xi

11-36-67

Flam. Liq. 2 - H225; Eye Irrit.

2 - H319, STOT SE 3 - H336

64742-49-0 Naphtha (petroleum), hydrotreated light 2,5-10

EC number: 920-750-0

Record number 01-2119473851-33

🤴 F 选 N 🗶 Xn

11-51/53-65-66-67

Flam. Liq. 2 - H225;
 ♣ Asp. Tox. 1
 - H304;
 ♣ STOT SE 3 - H336;

Aquatic Chronic 2 - H411

67-64-1 acetone 2,5-10

EC number: 200-662-2

Record number 02-2119471330-49

F X Xi

(continued on page 4)

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	A Flow Lin o Hoos A F 1 1	(continued of page 3)
	♦ Flam. Liq. 2 - H225; ♦ Eye Irrit.	
	2 - H319-EUH066, STOT SE 3 - H336	
64742-49-0	Spezialbenzin 100/140	2,5-10
	EC number: 265-151-9	
	11-38-51/53-65-67	
	♦ Flam. Liq. 2 - H225; ♦ Asp. Tox. 1	
	- H304; 🌵 Skin Irrit. 2 - H315, STOT SE	
	3 - H336; 🔖 Aquatic Chronic 2 - H411	
64-17-5	ethanol	< 1,5
	EC number: 200-578-6	, ·
	Record number 01-2119457610-43	
	6 F	
	11 ♦ Flam. Liq. 2 - H225; ♦ Eye Irrit.	
	2 - H319	
141-78-6	ethyl acetate	< 2,5
	EC number: 205-500-4	ŕ
	Record number 01-2119475103-46	
	11-36-66-67	
	🚸 Flam. Liq. 2 - H225; 🔱 Eye Irrit.	
	2 - H319-EUH066, STOT SE 3 - H336	
78-83-1	butanol	2,5-10
	EC number: 201-148-0	
	Record number 01-2119484609-23 Xi	
	10-37/38-41-67	
	- H226; 🕚 Skin Irrit. 2 - H315, STOT SE	
	3 - H335-H336	
71-36-3	butan-1-ol EC number: 200-751-6	< 2,5
	Record number 01-2119484630-38	
	Xn	
	10-22-37/38-41-67	
	🧇 Eye Dam. 1 - H318; 🚸 Flam. Liq. 3	
	- H226; 🕚 Acute Tox. 4 - H302, Skin	
	Irrit. 2 - H315, STOT SE 3 - H335-H336	

SECTION 04: First aid measures

- 4.1 Description of first aid measures
- General information:

Take off or remove contaminated clothing immediately. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

(continued on page 5)

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Seek medical treatment in case of complaints.

· After skin contact:

Wash thoroughly with soap and water immediately and rinse well.

If skin irritation continues, consult a doctor.

After eye contact:

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

After swallowing:

Drink copious amounts of water and provide fresh air. Call for a doctor immediately.

Information for doctor:

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 05: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:

Foam

Fire-extinguishing powder

Carbon dioxide

• For safety reasons unsuitable extinguishing agents:

Water with full jet

• 5.2 Special hazards arising from the substance or mixture

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

- 5.3 Advice for firefighters
- Protective equipment:

Mouth respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Bring if possible, containers from the danger zone. With heating up, printing increase, Berst and danger of explosion.

SECTION 06: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Protection regulations (see point 7 and 8) to consider.

• 6.2 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.

Possible warning the neighbourhood.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

• 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 07: Handling and storage

- · Handling:
- · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Use only in well ventilated areas.

Smoking, drinking and eating are not permitted at the working place!

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Keep out of the reach of children.

Do not breathe in fumes.

Do not empty into drains.

• Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

Vapours are heavier than air.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Observe official regulations for the storage of paints and chemicals.

- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

· Storage class:

3

CAS No.

• 7.3 Specific end use(s)

For more information, please refer to the technical data sheet.

SECTION 08: Exposure controls/personal protection

Designation of material

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

	3		
107-98-2 WEL	1-methoxy-2-prop	panol	
Short	-term value	560	mg/m3
		150	ррт
Long-	term value	375	mg/m3
		100	ррт
Sk			
123-86-4 WEL	n-butyl acetate		
Short	-term value	966	mg/m3
		200	ppm
Long-	term value	724	mg/m3
Ü		150	ppm
108-21-4	isopropyl acetate		
WEL			
Short	-term value	849	mg/m3
		200	ppm
67-63-0 WEL	propan-2-ol		
Short	-term value	1250	mg/m3
		500	ppm
Long-	term value	999	mg/m3
_		400	ppm
67-64-1 WEL	acetone		
Short	-term value	3620	mg/m3
		1500	ррт
Long-	term value	1210	mg/m3
			(continued on page 7)

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64-17-5 ethanol WEL Long-term value 1920 1000 Mayima 141-78-6 ethyl acetate WEL Short-term value 200 ppm 141-78-5 ethyl acetate WEL Short-term value 200 ppm 78-83-1 butanol WEL Short-term value 154 ppm 75 Long-term value 154 ppm 75 Long-term value 154 ppm 77 1-36-3 butan-1-ol WEL Short-term value 154 ppm 50 ppm 154 SK DNELD SK DNELD SK DNELD SK DNELD SK DNELD SC Inhalative, DNELDMEL: 439, mg/m3 (Consumer, Long Term Exposure) Inhalative, DNELDMEL: 389 mg/m3 (Worker, Long Term Exposure) Inhalative, DNELDMEL: 35, mg/m3 (Worker, Long Term Exposure) Dermal, DNELDMEL: 36, mg/kg (Worker, Long Term Exposure) Dermal, DNELDMEL: 36, mg/kg (Consumer, Long Term Exposure) Dermal, DNELDMEL: 36, mg/kg (Consumer, Long Term Exposure) Inhalative, DNELDMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNELDMEL: 48 mg/m3 (Worker, Long Term Exposure) Dermal, DNELDMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNELDMEL: 48 mg/m3 (Worker, Long Term Exposure) Dermal, DNELDMEL: 48 mg/m3 (Worker, Long Term Exposure) Dermal, DNELDMEL: 48 mg/m3 (Worker, Long Term Exposure) Dermal, DNELDMEL: 25 mg/m3 (Consumer, Long Term Exposure) Dermal, DNELDMEL: 26 mg/kg (Consumer, Long Term Exposure) Inhalative, DNELDMEL: 26 mg/kg (Consumer, Long Term Exposure) Dermal, DNELDMEL: 38 mg/m3 (Worker, Long Term Exposure) Dermal, DNELDMEL: 39 mg/m3 (Consumer, Long Term Exposure) Dermal, DN					Printing date: 09
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Short-term value 154 ppm Long-term value 154 mg/m3 Fo			butanol		
Long-term value 50 ppm 71-36-3 butan-1-ol WEL Short-term value 154 Short-term value 50 mg/m3 Sk DNELs 107-98-2 1-methoxy-2-propanol Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEC: 3,3 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Consumer, Short Term Exposure) Dermal, DNEL/DMEL: 34 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEC: 3,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 34 mg/kg (Consumer, Long Term Exposure) 108-21-4 isopropyl acetate Inhalative, DNEL/DMEL: 250 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 550 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 510 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 510 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 520 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 430 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 550 mg/m3 (Consumer, Long Term Exposure) Derma	WEL	01		204	
Long-term value 154 mg/m3 ppm 71-36-3 butan-1-ol WEL Short-term value 154 mg/m3 Sk • DNELs 107-98-2 1-methoxy-2-propanol Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 589 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 589 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 50,6 mg/kg (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 50,6 mg/kg (Worker, Cong Term Exposure) Oral, DNEL/DMEL: 50,6 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEL: 50,6 mg/kg (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 59,6 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 7 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 7 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 525 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 580 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 580 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 67 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 67 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 67 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 67 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 68 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 68 mg/m3 (Consumer, Long Term Exposur		Short-term	value		_
71-36-3 butan-1-ol WEL Short-term value 154 Spy 50 PDNELS 107-98-2 1-methoxy-2-propanol Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 583,5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 583,5 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 58,1 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 58,1 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 12 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 12 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 859,7 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 7,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 262 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 260 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 260 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 260 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 260 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 260 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 260 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 280 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 305 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 305 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 305 mg/m3 (Worker, Long Term Exposure) Dermal, DNE		Lanceter			
71-36-3 butan-1-ol WEL Short-term value 50 Sk DNELS 107-98-2 I-methoxy-2-propanol Inhalative, DNEL/DMEL: 43.9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 553.5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 58.3 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 58.3 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 58.6 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 59.6 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEL: 48 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 859,7 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 859,7 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 980 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 3.4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 3.4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 3.4 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 420 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 510 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 520 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 580 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 580 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 580 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 30 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DME		Long-term	value		•
Sk DNELs 107-98-2 1-methoxy-2-propanol Inhalative, DNEL/DMEL: 34,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 35,5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 35,5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 35,5 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 35,5 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 31,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 31,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 32,3 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 12 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 359,7 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 37,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 37,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 37,4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 37,4 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 420 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 350 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 36 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 36 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 38 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 305 mg/m3 (Worker, Long Term Exposure) Dermal,	74.00.0		hudan di d	50	ppm
Sk DNELs 107-98-2 I-methoxy-2-propanol Inhalative, DNEL/DMEL: 43.9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 353.5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 353.5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 553.5 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 550.6 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 33.3 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 32 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 39.7 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 34, mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 34, mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 34, mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 34, mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 34, mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 32, mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 340 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 350 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 36 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 36 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 38 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 38 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/m3 (Worker, Long Term Exposure) Oral, DNEL/DMEL: 39 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/m3 (Worker, Long Term Exposure) Oral, DNEL/DMEL: 31 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 31 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEL: 31 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 33 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 309 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 309 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 309			putan-1-oi		
Sk DNELS 107-98-2 Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 359 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 51,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 53,3 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 33,3 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 48 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 359,7 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 360 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 37,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 34,4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 34,4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 34,4 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 352 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 352 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 352 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 350 mg/m3 (Consumer, Short Term Exposure) Dermal, DNEL/DMEL: 350 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 36 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 38 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 38 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 38 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 30 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 30 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 30 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 30 mg/m3	WEL	01		4-4	
DNELS 107-98-2 1-methoxy-2-propanol Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 363,5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 36,5,5 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 30,6 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 3,3 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 12 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 34 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 859,7 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 960 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 34 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 34 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEC: 3,4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 250 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 350 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 300 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 300 mg		Snort-term	value		•
• DNELS 107-98-2 1-methoxy-2-propanol Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 550,6 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 50,6 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 3,3 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEC: 3,3 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 359,7 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 960 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEC: 3,4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEC: 3,4 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 34 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 39 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 38 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 388 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 388 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 389 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 389 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 389 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 390 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 390 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 390 mg/m3 (Consumer, Long Term Exposu		0/		50	ppm
Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 55,6 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 55,6 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEL: 33,4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEL: 33,4 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 369, mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 369, mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure) Oral, DNEL/DMEC: 3,4 mg/kg (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 250 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 250 mg/m3 (Worker, Short Term Exposure) Inhalative, DNEL/DMEL: 350 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 350 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 43 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 43 mg/kg (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 350 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 350 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 350 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 350 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 350 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 2035 mg/m3 (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 350 mg/m3 (Consumer, Long	• DNEI				
Inhalative, DNEL/DMEL: 89 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 500 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 319 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 888 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 26 mg/kg (Consumer, Long Term Exposure) 64742-49-0 Naphtha (petroleum), hydrotreated light Inhalative, DNEL/DMEL: 608 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 2035 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 699 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 773 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 699 mg/kg (Consumer, Long Term Exposure) 67-64-1 acetone Inhalative, DNEL/DMEL: 200 mg/m3 (Consumer, Long Term Exposure)	Inhala Derma Derma Oral, I 123-86-4 Inhala Inhala Inhala Derma Oral, I 108-21-4 Inhala Inhala Inhala Inhala Inhala	tive, DNEL, al, DNEL/DIAI, DNEL/DME tive, DNEL tive, DNEL tive, DNEL tive, DNEL DNEL/DIAI, DNEL/DME tive, DNEL DNEL, blive, DNEL tive, DNEL/DIAI, DNEL/D	/DMEL: 553,5 MEL: 18,1 mg MEL: 50,6 mg C: 3,3 mg/kg n-butyl acetate /DMEL: 12 mg /DMEL: 48 mg /DMEL: 859,7 /DMEL: 960 m MEL: 3,4 mg/kg C: 3,4 mg/kg isopropyl aceta /DMEL: 252 m /DMEL: 420 m /DMEL: 510 m /DMEL: 850 m MEL: 26 mg/k MEL: 26 mg/k MEL: 43 mg/k	mg/m3 (Worker, Short Term Exposure) l/kg (Consumer, Long Term Exposure) l/kg (Worker, Short Term Exposure) l/kg (Consumer, Long Term Exposure) l/kg (Morker, Long Term Exposure) l/kg (Morker, Long Term Exposure) l/kg (Morker, Short Term Exposure) l/kg (Morker, Short Term Exposure) l/kg (Morker, Long Term Exposure) l/kg (Morker, Long Term Exposure) l/kg (Morker, Long Term Exposure)	
Inhalative, DNEL/DMEL: 200 mg/m3 (Consumer, Long Term Exposure)	Inhala Inhala Derma Oral, I 64742-49 Inhala Inhala Derma	tive, DNEL tive, DNEL/DI al, DNEL/DI DNEL/DME 9-0 tive, DNEL tive, DNEL al, DNEL/DI al, DNEL/DI	/DMEL: 89 mg/ /DMEL: 500 m MEL: 319 mg/ MEL: 888 mg/ C: 26 mg/kg (<i>Naphtha (petro</i> /DMEL: 608 m /DMEL: 2035 i MEL: 699 mg/ MEL: 773 mg/	ng/m3 (Worker, Long Term Exposure) (kg (Consumer, Long Term Exposure) (kg (Worker, Long Term Exposure) (Consumer, Long Term Exposure) (Consumer, Long Term Exposure) (Consumer, Long Term Exposure) (Consumer, Long Term Exposure) (kg (Consumer, Long Term Exposure) (kg (Worker, Long Term Exposure)	
(continued on page 8		tive, DNEL		ng/m3 (Consumer, Long Term Exposure)	

(continued on page 8)

628700 Reviewed on: 09.04.2015 Printing date: 09.04.2015

(continued of page 7)

PRODUCT: Dipping lacguer for incandescent lamps

> Inhalative, DNEL/DMEL: 1210 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 2420 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 62 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 186 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 62 mg/kg (Consumer, Long Term Exposure)

Inhalative, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 950 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 1900 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 206 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 343 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 87 mg/kg (Consumer, Long Term Exposure)

141-78-6 ethyl acetate

Inhalative, DNEL/DMEL: 367 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 734 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 734 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 1468 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 37 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 63 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 4,5 mg/kg (Consumer, Long Term Exposure)

78-83-1

Inhalative, DNEL/DMEL: 55 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Oral, DNEL/DMEC: 25 mg/kg (Consumer, Long Term Exposure)

71-36-3 butan-1-ol

Inhalative, DNEL/DMEL: 55 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Oral, DNEL/DMEC: 3125 mg/kg (Worker, Long Term Exposure)

PNECs

107-98-2 1-methoxy-2-propanol

PNEC: 10 mg/l (Fresh water)

PNEC: 1 mg/l (Seawater)

PNEC: 100 mg/l (Liberation - sporadic -)

PNEC: 100 mg/l (Defecator)

PNEC: 41,6 mg/kg (sediment (Fresh water)) PNEC: 4,17 mg/kg (sediment (seawater))

PNEC: 2,47 mg/kg (Bottom)

123-86-4 n-butyl acetate

PNEC: 0,18 mg/l (Fresh water)

PNEC: 0,018 mg/l (Seawater)

PNEC: 0.36 mg/l (Liberation - sporadic -)

PNEC: 35,6 mg/l (Defecator)

PNEC: 0,981 mg/kg (sediment (Fresh water)) PNEC: 0,0981 mg/kg (sediment (seawater))

PNEC: 0,0903 mg/kg (Bottom)

108-21-4 isopropyl acetate

PNEC: 0,22 mg/l (Fresh water) PNEC: 0,022 mg/l (Seawater)

PNEC: 1,25 mg/kg (sediment (Fresh water))

PNEC: 0,125 mg/kg (sediment (seawater))

67-63-0 propan-2-ol

PNEC: 140,9 mg/l (Fresh water)

PNEC: 140,9 mg/l (Seawater)

PNEC: 552 mg/kg (sediment (Fresh water)) PNEC: 552 mg/kg (sediment (seawater))

PNEC: 28 mg/kg (Bottom)

67-64-1

PNEC: 10,6 mg/l (Fresh water) PNEC: 1,06 mg/l (Seawater)

PNEC: 21 mg/l (Liberation - sporadic -)

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PNEC: 29,5 mg/l (Defecator)

PNEC: 30,4 mg/kg (sediment (Fresh water)) PNEC: 3,04 mg/kg (sediment (seawater))

PNEC: 29,5 mg/kg (Bottom)

64-17-5 ethanol

PNEC: 0,96 mg/l (Fresh water) PNEC: 0,79 mg/l (Seawater) PNEC: 580 mg/l (Defecator)

PNEC: 3,6 mg/kg (sediment (Fresh water)) PNEC: 2,9 mg/kg (sediment (seawater))

PNEC: 0,63 mg/kg (Bottom)

41-78-6 ethyl acetate PNEC: 0,26 mg/l (Fresh water) PNEC: 0,026 mg/l (Seawater) PNEC: 650 mg/l (Defecator)

PNEC: 0,34 mg/kg (sediment (Fresh water)) PNEC: 0,034 mg/kg (sediment (seawater))

PNEC: 0,22 mg/kg (Bottom)

butanol

PNEC: 0,4 mg/l (Fresh water) PNEC: 0,04 mg/l (Seawater)

PNEC: 1,52 mg/kg (sediment (Fresh water)) PNEC: 0,152 mg/kg (sediment (seawater))

71-36-3 butan-1-ol

PNEC: 0,082 mg/l (Fresh water) PNEC: 0,0082 mg/l (Seawater) PNEC: 2476 mg/l (Defecator)

PNEC: 0,178 mg/kg (sediment (Fresh water)) PNEC: 0,0178 mg/kg (sediment (seawater))

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

Avoid contact with the eyes and skin.

- Respiratory protection: If the solvent concentration is above WEL limits, a breathing mask approved for this purpose must be worn. Filter A/P2.
- · Protection of hands: The glove material has to be impermeable and resistant to the product the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Protective gloves made of latex / neoprene. Degradation effect G to E Instalment of permeation E to ND (< 0.9 µg / cm 2 / min). Protective factor index: special subject class 6 Clean skin thoroughly after work and put on skin protecting cream.
- · 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.

- Eye protection: Safety glasses
- **Body protection: Protective work clothing**

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Colour: According to product specification

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	(continued of page	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not usable on solvent preparations.	
Change in condition Phase transfer: fluid - se	olid	
Boiling point/Boiling range (approximately):	55,0 °C	
Flash point (approximately):	-1,0 °C DIN 51 755	
Ignition temperature (approximately):	250,00 °C (lowest value of the single components)	
Decomposition temperature:	Not determined.	
Self-igniting:	Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
Explosion limits:		
Lower:	1,40 Vol %	
Upper:	11,50 Vol %	
Oxidizing properties	Not determined	
Vapour pressure:	50°C < 1.100 hPa	
Density:	0,8800 g/cm3	
Vapour density	Not determined.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with	Organic solvents	
water:	Insoluble.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity (according to DIN 53211)		
Dynamic:	Not determined.	
Kinematic:	at 20,00 °C 35,00 s DIN 4 mm	
Solvent separation test:	< 3 %	
Organic solvents (approximately):	92,00 %	
VOC (EC)	809,00 g/l	
Solids content (approximately):	8,00 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

• 10.1 Reactivity

On storage in containers no traffic laws intolerances are to be expected with the tank shell.

10.2 Chemical stability

Stable at room temperature

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

• 10.3 Possibility of hazardous reactions

Forms explosive gases/fumes.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

• 10.4 Conditions to avoid

No further relevant information available.

• 10.5 Incompatible materials:

No further relevant information available.

• 10.6 Hazardous decomposition products:

Flammable gases/vapours

GB

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SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity:
- LD/LC50 values relevant for classification:

107-98-2 1-methoxy-2-propanol

Oral, LD50: 4016 mg/kg (rat)

Dermal, LD50: 2000 mg/kg (Rabbit)

Inhalative, LC50/4h: 27,596 mg/l (Rabbit)

123-86-4 n-butyl acetate

Oral, LD50: 10760 mg/kg (rat)

Dermal, LD50: > 14112 mg/kg (Rabbit)

Inhalative, LC50/4h: 23,4 mg/l (rat)

108-21-4 isopropyl acetate

Oral, LD50: 6750 mg/kg (rat)

Dermal, LD50: 17400 mg/kg (Rabbit)

Inhalative, LC50/4h: 50,6 mg/l (rat)

67-63-0 propan-2-ol

Oral, LD50: 4750 mg/kg (rat)

Dermal, LD50: 13400 mg/kg (Rabbit)

Inhalative, LC50/4h: 30 mg/l (rat)

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral, LD50: > 5000 mg/kg (rat)

Dermal, LD50: > 2920 mg/kg (rat)

Dermal, LD50: > 2000 mg/kg (Rabbit)

Inhalative, LC50/4h: > 20 mg/l (rat)

67-64-1 acetone

Oral, LD50: > 2000 mg/kg (rat)

Dermal, LD50: > 2000 mg/kg (Rabbit)

Inhalative, LC50/4h: 76 mg/l (rat)

64742-49-0 Spezialbenzin 100/140

Oral, LD50: > 2000 mg/kg (rat)

Dermal, LD50: > 2000 mg/kg (Rabbit)

Inhalative, LC50/4h: > 5 mg/l (rat)

64-17-5 ethanol

Oral, LD50: > 2000 mg/kg (rat)

Dermal, LD50: > 2000 mg/kg (Rabbit)

Inhalative, LC50/4h: > 20 mg/l (rat)

141-78-6 ethyl acetate

Oral, LD50: 5600 mg/kg (rat)

Dermal, LD50: 18000 mg/kg (Rabbit)

Inhalative, LC50/4h: > 22,5 mg/l (rat)

78-83-1 butanol

Oral, LD50: 2460 mg/kg (rat)

Dermal, LD50: 3400 mg/kg (Rabbit)

Inhalative, LC50/4h: 24,6 mg/l (rat)

71-36-3 butan-1-ol

Oral, LD50: 2292 mg/kg (rat)

Dermal, LD50: 3430 mg/kg (Rabbit)

Inhalative, LC50/4h: 8000 mg/l (rat)

· Primary irritant effect:

• on the skin:

Frequent and prolonged skin contact can cause irritation and inflammation of the skin. Repeated exposure may cause skin dryness or cracking.

· on the eye:

Irritating effect.

Sensitization:

No sensitizing effects known.

· Additional toxicological information:

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The breathing in of solvent proportions above the value of M. W. C.-value can lead to health damages, such as irritating mucous membranes and respiratory organs, kidney and liver damages as well as to the impairment of the central nervous system. Signs and symptoms: Headache, dizziness and tiredness, myasthenia, numbing effect and also unconsciousness in exceptional cases. Longer and repeated skin contact can lead to drying out the skin or to skin irritations, respectively. Solvent splashes can lead to eye irritations and reversible damages. In such cases a physician should be consulted at once.

The product shows the following dangers based on the calculation method of the General EU Classification Guidelines for Substances and Mixtures according to the CLP Regulation in the latest version:

Eye Dam. 1 - H318 Causes serious eye damage. STOT SE 3 - H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

- 12.1 Toxicity
- · Aquatic toxicity:

107-98-2 1-methoxy-2-propanol

fish, L(E)C50 :> 1000 mg/l alga, L(E)C50 :> 1000 mg/l

daphnie, L(E)C50: 21100-25900 mg/l

123-86-4 n-butyl acetate

fish, L(E)C50 : 18 mg/l alga, L(E)C50 : 647,7 mg/l daphnie, L(E)C50 : 44 mg/l

108-21-4 isopropyl acetate fish, L(E)C50: 360 mg/l

alga, L(E)C50 : 370 mg/l daphnie, L(E)C50 : > 1000 mg/l 67-63-0 propan-2-ol

fish, L(E)C50 : 9640 mg/l daphnie, L(E)C50 : 13299 mg/l

64742-49-0 Naphtha (petroleum), hydrotreated light

daphnie, L(E)C50: 4,6 - 10,0 mg/l

67-64-1 acetone fish, L(E)C50 : 5540 mg/l alga, L(E)C50 : 4740 mg/l daphnie, L(E)C50 : 8880 mg/l

64-17-5 ethanol fish, L(E)C50 : 15300 mg/l daphnie, L(E)C50 : > 10000 mg/l

41-78-6 ethyl acetate fish, L(E)C50 : 230 mg/l alga, L(E)C50 : 3300 mg/l daphnie, L(E)C50 : 717 mg/l

78-83-1 butanol fish, L(E)C50 : 1430 mg/l alga, L(E)C50 : 1250 mg/l daphnie, L(E)C50 : 1030 mg/l

71-36-3 butan-1-ol fish, L(E)C50 : 1730-1910 mg/l alga, L(E)C50 : > 500 mg/l daphnie, L(E)C50 : 1983 mg/l

- 12.2 Persistence and degradability
 No further relevant information available.
- Behaviour in environmental systems:
- 12.3 Bioaccumulative potential

No further relevant information available.

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• 12.4 Mobility in soil

No further relevant information available.

- · Ecotoxical effects:
- · Remark:

Harmful to fish

· General notes:

Harmful to aquatic organisms.

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

Water hazard class 1: slightly hazardous for water

- 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

The mentioned waste code number according to the European waste code catalogue are regarded as a recommendation. A final determining has to be effected in agreement with the regional place of waste disposal as well as the competent authorities.

Waste disposal key:

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

· European waste catalogue

08

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01

wastes from MFSU and removal of paint and varnish

08 01 11

waste paint and varnish containing organic solvents or other dangerous substances

· Uncleaned packaging:

Disposal of uncleaned packagings according to European waste code number 15 01 10.

· Recommendation:

Disposal according to 15 01 04 (metal).

EAK-Nummer 15 01 02 / plastic

Packaging can be reused or recycled after cleaning.

SECTION 14: Transport information

• 14.1 UN-Number

 ADR
 UN1263

 IMDG
 UN1263

 IATA
 UN1263

• 14.2 UN proper shipping name

ADR 1263 PAINT (ACETONE)

IMDG PAINT IATA PAINT

• 14.3 Transport hazard class(es)

ADR

Class 3 Flammable liquids.

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Label



IMDG

Class

Label

3 Flammable liquids.

IATA

Class Label 3 Flammable liquids.

3

• 14.4 Packing group

ADR || IMDG || III IATA || II

• 14.5 Environmental hazards:

Not applicable.

• 14.6 Special precautions for user

Warning: Flammable liquids.

Danger code (Kemler): 33

EMS Number: F-E,S-E

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- Transport/Additional information:

Not applicable.

 Excepted quantities (EQ):
 E2

 Limited quantities (LQ)
 5L

 Transport category
 2

 Tunnel restriction code
 D/E

• UN "Model Regulation":

UN 1263 PAINT (ACETONE), 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Chemical safety assessment

For this product no appraisal of substance safety was carried out. Information from exposure scenarios of the following substances were integrated into section 1-16:

n-butyl acetate

acetone

isopropyl acetate

propan-2-ol

1-methoxy-2-propanol

butanol

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butan-1-ol

Naphtha (petroleum), hydrotreated light

The compliance with the application conditions and measures for risk minimisation contained in this material safety data sheet ensures the conformity with the existing exposure scenarios.

- · National regulations:
- · Information about limitation of use:

Pregnant and breastfeeding women and young persons.

· Waterhazard class:

Water hazard class 1: slightly hazardous for water.

Storage class:

3

SECTION 16: Other information

· Reasons for changes

Classification according to Regulation (EC) No 1272/2008.

Relevant phrases

Relevant pin	4355
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
R 10	Flammable.
R 11	Highly flammable.
R 37/38	Irritating to respiratory system and skin.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 38	Irritating to skin.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.
R 41	Risk of serious damage to eyes.
R 65	Harmful: may cause lung damage if swallowed.
	· · · · · · · · · · · · · · · · · · ·

Department issuing MSDS:

Laboratory / Department of Material Safety Data Sheets: Phone: +49 69 89 00 7 - 104 / Fax: +49 69 89 00 7 - 452 / E-Mail: cosima.sattler@clou.de

• Information:

The information given in this safety data sheet is based on the present level of knowledge, but does not represent an assurance of product characteristics.

For further information on the handling and application of the product(s), please refer to our label and the technical instructions leaflet or contact our Customer Service Department on Tel.: 49 69 / 89 00 7 -124. -107 or -227.

The user is responsible for observing all necessary legal regulations.

According to § 20 and § 21 GefStoffV the employer must provide instruction to the employees affected on the basis of the operating instructions every year. The content and time of the instruction is to be recorded in writing and confirmed by signatures from those receiving instruction.

Please observe work safety measures in items 8 and 15.

Use only for intended purposes. Keep out of the reach of children.

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· Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent