Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.10.2013 *Revision: 28.10.2013*

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

· **1.1 Product identifier**

· **Trade name:** LaNe® Sohlenlöser - LaNe® sole solvent - Ref. 72320 et seq.

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU11 Manufacture of rubber products
SU12 Manufacture of plastics products, including compounding and conversion
SU17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU7 Printing and reproduction of recorded media
· **Process category**
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC7 Industrial spraying
· **Application of the substance / the preparation**
Solvents
Cleaning agent/ Cleaner
Thinner, Diluent

· **1.3 Details of the supplier of the safety data sheet**

W.R. LANG
MEHR KOMFORT EIN LEBEN LANG – SEIT 1872
Hafenstr. 83 - D-56564 Neuwied
Fon: + 49(0)2631/3455-10 - Fax: +49(0)2631/3455-30
Mail: service@w-r-lang.de
informing division: product safety
Emergency call: Poison control center Mainz
24 hour emergency service - Tel: +49 (0) 6131/19240

SECTION 2: Hazards identification

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


GHS02 flame

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


GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.


GHS07

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Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

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

Xn; Harmful

R48/20-63-65: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.

Xi; Irritant

R36/38: Irritating to eyes and skin.

F; Highly flammable

R11: Highly flammable.

R67: 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.
Has a narcotizing effect.
Protect against electrostatic charges.
Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.
Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms
In the gas volume of sealed packages vapours of flammable solvents, especially at action of heat, may accumulate. Keep away fire and ignition sources.

· **Classification system:**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· **2.2 Label elements**

· **Labelling according to EU guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**
Xn Harmful
F Highly flammable

· **Hazard-determining components of labelling:**
toluene

· **Risk phrases:**
11 Highly flammable.
36/38 Irritating to eyes and skin.
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
63 Possible risk of harm to the unborn child.
65 Harmful: may cause lung damage if swallowed.
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe vapour.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37 Wear suitable protective clothing and gloves.
60 This material and its container must be disposed of as hazardous waste.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

CAS: 108-88-3 EINECS: 203-625-9	toluene Xn R48/20-63-65; Xi R38; F R11 R67 Repr. Cat. 3 Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	25-100%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	20-<25%

· **Description:**
Mixture consisting of the following components.
Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9	toluene Xn R48/20-63-65; Xi R38; F R11 R67 Repr. Cat. 3 Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	25-100%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	20-<25%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information**
Instantly remove any clothing soiled by the product.
Take affected persons out of danger area and instruct to lie down.
Keep warm, position comfortably and cover well.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Personal protection for the First Aider.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Launder contaminated clothing before reuse.
· **After inhalation**
Take affected persons into the open air and position comfortably
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness bring patient into stable side position for transport.
· **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. Then consult doctor.
Use eye protection.
· **After swallowing**
Rinse out mouth.
Seek immediate medical advice.

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Do NOT induce vomiting!
A person vomiting while lying on their back should be turned onto their side.
· **4.2 Most important symptoms and effects, both acute and delayed**
Dizziness
Unconsciousness
Coughing
Sickness
· **Information for doctor** treat symptomatically
· **Danger** Danger of pneumonia.
· **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed or in case of vomiting, danger of entering the lungs
Subsequent observation for pneumonia and pulmonary oedema

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents**
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
· **5.2 Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.
Fumes are heavier than air
Vapour may travel across the ground and reach remote ignition sources, causing a flashback fire danger.
Can be released in case of fire
Carbon monoxide and carbon dioxide
Products of incomplete combustion.
Ethanoic acid
· **5.3 Advice for firefighters**
· **Protective equipment:**
Wear self-contained breathing apparatus.
Put on breathing apparatus.
Wear full protective suit.
· **Additional information**
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered containers with water spray jet.
Keep people at a distance and stay on the windward side.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Keep people at a distance and stay on the windward side.
Use breathing protection against the effects of fumes/dust/aerosol.
Ensure adequate ventilation
Keep away from ignition sources
Avoid contact with the eyes and skin.
· **6.2 Environmental precautions:**
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
Prevent material from reaching sewage system, holes and cellars.
Do not allow to enter the ground/soil.
If material reaches soil inform authorities responsible for such cases.
· **6.3 Methods and material for containment and cleaning up:**
For large amounts: Pump off product.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Remove from the surface of water (e.g. skim or vacuum off)
Land Spill: Stop leak if you can do so without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.
Water Spill: Stop leak if you can do so without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.
Send for recovery or disposal in suitable containers.
Ensure adequate ventilation.
Dispose of contaminated material as waste according to item 13.

· **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 information on disposal.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Do not eat, drink or smoke while working.
The usual precautionary measures should be adhered to general rules for handling chemicals.
Store in cool, dry place in tightly closed containers.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.
Prevent formation of aerosols.
Work only in fume cupboard.
Carry out filling operations only at sites with extractors available.
Use solvent-proof equipment.
Restrict the quantity stored in the work place.
Use only in well ventilated areas.
Extractor required on object.
Avoid contact with the eyes and skin.
Keep away from ignition sources
Do not inhale gases / fumes / aerosols.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· **Information about protection against explosions and fires:**
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Use only in explosion-proof area.
Wear shoes with insulated soles.
Fumes can combine with air to form an explosive mixture.
Flammable mixtures may be formed in empty containers.
Protect from heat.
Keep ignition sources away - Do not smoke.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:**
Provide floor trough without outlet.
Prevent any penetration into the ground.
Store in cool location.
Store only in the original container.
Provide solvent resistant, sealed floor.
Additional advices: 'American Petroleum Institute 2003' (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or in 'National Fire Protection Agency 77' (Recommended Practice on Static Electricity) or in 'CENELEC CLC/TR 50404' (Electrostatics - Code of practice for the avoidance of hazards due to static electricity)

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Unsuitable material for container:
Natural rubber, NR
Butyl rubber, BR
polystyrene

· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with alkalis (caustic solutions).
Store away from reducing agents.
Do not store together with acids.
Store away from oxidizing agents.

· **Further information about storage conditions:**
Keep container tightly sealed.
Store container in a well ventilated position.
Protect from heat and direct sunlight.
Store in a cool place.

· **Recommended storage temperature:** 5 - 30 °C

· **Storage class** 3A (flammable liquids)

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
108-88-3 toluene (50 - 100%)	
WEL (Great Britain)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk
STEL (ELV) (European Union)	Short-term value: 384 mg/m³, 100 ppm
TWA (ELV) (European Union)	Long-term value: 192 mg/m³, 50 ppm
141-78-6 ethyl acetate (20-<25%)	
WEL (Great Britain)	Short-term value: 400 ppm Long-term value: 200 ppm

· **DNELs**		
108-88-3 toluene		
Oral	DNEL (Langzeit, oral, systemisch)	8.13 mg/kg bw/day (customer)
Dermal	DNEL (Langzeit, dermal, systemisch)	226 mg/kg bw/day (customer)
		384 mg/kg bw/day (worker)
Inhalative	DNEL (Langzeit, inhalativ, lokal)	192 mg/m³ (worker)
	DNEL (Langzeit, inhalativ, systemisch)	56.5 mg/m³ (customer)
		192 mg/m³ (worker)
	DNEL (akut, inhalativ, lokal)	226 mg/m³ (customer)
		343 mg/m³ (worker)
	DNEL (akut, inhalativ, systemisch)	226 mg/m³ (customer)
		384 mg/m³ (worker)

· **PNECs**	
108-88-3 toluene	
PNEC (Predicted No Effect Concentration)	2.89 mg/kg (soil)
	13.61 mg/l (sewage treatment)
	16.39 mg/kg (sediment)
	0.68 mg/l (fresh water)

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· **Additional information:**
The lists that were valid during the compilation were used as basis.
TRGS 900 - "Threshold limit values"
Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/ institute(s): for the United Kingdom: UK Health and Safety Executive (HSE)

· **8.2 Exposure controls**
· **Personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Use skin protection cream for preventive skin protection.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Pregnant women must strictly avoid inhalation or contact with the skin.
Do not inhale gases / fumes / aerosols.
Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin.
Avoid close or long term contact with the skin.
Do not carry cleaning cloths impregnated with the product in trouser pockets.
· **Breathing equipment:**
Filter A/P2.
Not necessary if room is well-ventilated.
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
· **Protection of hands:**
Solvent resistant gloves
Protective gloves.
Preventive skin protection by use of skin-protecting agents is recommended.
Only use chemical-protective gloves with CE-labelling of category III.
Check protective gloves prior to each use for their proper condition.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Protective gloves should be replaced at first signs of wear.
· **Material of gloves**
Fluorocarbon rubber (Viton)
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.
Recommended thickness of the material: >0,5 mm
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **As protection from splashes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
· **Not suitable are gloves made of the following materials:**
Nitrile rubber, NBR
Strong gloves
Leather gloves
· **Eye protection:** Tightly sealed safety glasses.
· **Body protection:** Protective work clothing.
· **Limitation and supervision of exposure into the environment**
Do not allow to enter drainage system, surface or ground water.
Do not allow to enter the ground/soil.
Prevent from spreading (e.g. by damming-in or oil barriers).

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Colour:	Colourless
· **Odour:**	like solvents
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	76 °C
· **Flash point:**	-4 °C
· **Ignition temperature:**	460 °C
· **Decomposition temperature:**	Not determined.
· **Self-inflammability:**	Not determined.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· **Critical values for explosion:**	
Lower:	1.0 Vol %
Upper:	11.5 Vol %
· **Vapour pressure at 20 °C:**	97 hPa
· **Density at 20 °C**	0.87 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
dynamic:	Not determined.
kinematic at 20 °C:	10 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	100.0 %
Water:	0.0 %
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity**
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
Protect from heat and direct sunlight.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Protect against electrostatic charges.
· **10.3 Possibility of hazardous reactions**
Reacts with strong acids and alkali
Forms explosive gas mixture with air
Reacts with oxygen
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.

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· **10.5 Incompatible materials:**
oxidizing agents
Acids
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
108-88-3 toluene		
Oral	LD_{50}	5300-5910 mg/kg (rat)
Dermal	LD_{50}	12124 mg/kg (rabbit)
Inhalative	LC_{50}/4 h	(4h) 19 mg/l (rat)

· **Primary irritant effect:**
· **on the skin:**
Irritant to skin and mucous membranes.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

108-88-3 toluene		
Irritation of skin	+	(canine) (OECD TG 404)

· **on the eye:** Irritant effect.
· **Sensitization:** No further relevant information available.
· **Subacute to chronic toxicity:**
Suspected of damaging fertility.
Possible risk of impaired fertility.
Suspected of damaging fertility or the unborn child.
· **Additional toxicological information:**
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
Vapours have anaesthetic effect.
Danger by skin resorption.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
If swallowed or in case of vomiting, danger of entering the lungs
· **Acute effects (acute toxicity, irritation and corrosivity)** Irritant to skin and mucous membranes.
· **Repeated dose toxicity** May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
108-88-3 toluene	
EC_{50}-Algentoxizität	(3h) 134 mg/l (Chlorella vulgaris)
EC_{50}-Bakterientoxizität	(30min.) 20 mg/l (Photobacter phosphoreum)
EC_{50}-Daphnientoxizität	(48h) 11.5 mg/l (daphnia (Daphnia magna))
IC_{50}-Algentoxizität	(72h) 12 mg/l (Pseudokirchneriella subcapitata)
	(72h) 12 mg/l (Selenastrum capricornutum)
LC_{50}-Daphnientoxizität	(48h) 3.78 mg/l (Ceriodaphnia Dubia)
LC_{50}-Fischtoxizität	(96h) 13 mg/l (Goldfish (Carassius auratus))
	(96h) 24 mg/l (rainbow trout (Oncorhynchus mykiss))
	(96h) 5.5 mg/l (Coho salmon (Oncorhynchus kisutch))

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No Observed Effect Concentration (aquatic)	(96h) 36.2 mg/l (fathead minnow (Pimephales promelas)) (72h) 456 mg/l (Entosiphon sulcatum) (16h) 29 mg/l (Pseudomonas putida)

· **12.2 Persistence and degradability** No further relevant information available.

· **Degree of elimination:**	
108-88-3 toluene	
biologische Abbaubarkeit (Biodegradation)	(25 °C) 73% (.) (BOD 5) (20d) 86% (.)

· **Behaviour in environmental systems:**
· **Components:** The product is insoluble and floats on water.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**

· **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**	
108-88-3 toluene	
Bakterientoxizität	(NOEC,16h) 29 mg/l (Pseudomonas putida)

· **Additional ecological information:**

· **CSB-value:**	
108-88-3 toluene	
chemischer O_2-Bedarf(CSB)(Chemical Oxygen demand	0.7 g O_2/g (.)

· **BSB5-value:**	
108-88-3 toluene	
biolog.O_2-Bedarf(BSB)(Biochemical Oxygen demand)	(5d) 0.860 g O_2/g (.)

· **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
contains no adsorbable organically bound halogens (AOX)
· **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Avoid transfer into the environment.
Do not allow product to reach ground water, water bodies or sewage system.
Harmful to aquatic organisms
Danger to drinking water if even small quantities leak into soil.
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Can be burnt with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
Disposal must be made according to official regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
None disposal into waste water.
· **Waste disposal key number:**
For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
· **European waste catalogue**
08 01 12
Waste generated from production, formulation, application and removal of paints and varnishes - waste paint and varnish other than those mentioned in 08 01 11.
Please check the waste code from the origin in your company.
NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

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· **Uncleaned packagings:**
· **Recommendation:**
Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
Packaging can be reused or recycled after cleaning.
Flammable mixtures may be formed in empty containers.
DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR**	1263 PAINT RELATED MATERIAL
· **IMDG, IATA**	PAINT RELATED MATERIAL
· **14.3 Transport hazard class(es)**	
· **ADR**	

· **Class**	3 (F1) Flammable liquids.
· **Label**	3
· **IMDG, IATA**	

· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	II
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Kemler Number:**	33
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **UN "Model Regulation":**	UN1263, PAINT RELATED MATERIAL, 3, II

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Safety data sheet
according to 1907/2006/EC, Article 31

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SECTION 15: Regulatory information

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

· **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**
Xn Harmful
F Highly flammable

· **Hazard-determining components of labelling:**
toluene

· **Risk phrases:**
11 Highly flammable.
36/38 Irritating to eyes and skin.
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
63 Possible risk of harm to the unborn child.
65 Harmful: may cause lung damage if swallowed.
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe vapour.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37 Wear suitable protective clothing and gloves.
60 This material and its container must be disposed of as hazardous waste.

· **National regulations**

· **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

· **Technical instructions (air):**

Class	Share in %
II	50 - 100
NK	10-<25

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

· **Other regulations, limitations and prohibitive regulations**
TRGS 400 "Risk assessment for activities involving hazardous substances"
TRGS 401 "Risks resulting from skin contact - identification, assessment, measures"
TRGS 500: precautions: minimum standards

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

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

R11 Highly flammable.

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R36 Irritating to eyes.
R38 Irritating to skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

· **Department issuing data specification sheet:** *Product safety*

· **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)
ICAO: International Civil Aviation Organization
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
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
ISO: International Organization for Standardization
DNEL: Derived No-Effect Level (REACH)
bw: bodyweight
Langz., Langzeit: chronical exposure,
akut: acute (exposure)
lokal: local effects
system., systemisch: systemic effects
PNEC: Predicted No-Effect Concentration (REACH)
LC_{50}: lethal concentration for 50 percent of the animals or plants used for testing
LD_{50}: lethal dose for 50 percent of the animals used for testing
LD_0: lethal concentration for 0 percent
LD_0: lethal dose for 0 percent
nb / n.b. : not determined
theoret. O_2-Bedarf: theoretical oxigen demand
biolog. O_2-Bedarf: biological oxigen demand
chem. O_2-Bedarf: chemical oxigen demand
AOX: adsorbable organically bound halogens
TRGS: technische Regeln für Gefahrstoffe (technical rules for dealing with dangerous substances)
Merkblatt BG-Chemie: datasheet of the "Berufsgenossenschaft Rohstoffe und chemische Industrie" (former: "Berufgenossenschaft Chemie") (German insurance in case of accidents at work)
inh., inhal., inhalativ : inhalative
n.a.: not applicable
(derived fr.data f.similar substances,intern.rep.) = derived from data from tests with similar substances, internal reports, not published
Vert.koeff.Bod./Wass = Partition Coefficient soil / water
n.v.: not available
Susp.: suspension
H: the product is skin-resorbing
Algentoxizität: toxicity for algae
Bakterientoxizität: toxicity for bacteria
Daphnientoxizität: toxicity for Daphnia
Fischtoxizität: toxicity for fishes
biologische Abbaubarkeit: Biodegradation
DOC: dissolved organic carbon
Halbwertszeit: half-life
((*)) long-term exposure, local effects
((**)) long-term exposure, systemic effects
((***)) acute exposure, local effects
((****)) acute exposure, systemic effects
DIN: Norm des Deutschen Instituts für Normung = standard of the German Institute for Standardization
EN: Europäische Norm = standard of the European Committee for Standardization (CEN)
OECD: OECD Test Guideline

· **Sources** *http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp*