



Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

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

1.1. Product identifier

Desol

Registration no.

EC No.: 203-625-9

CAS No. 108-88-3

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

Use of the substance/preparation

Dilution for lacquers containing toluene

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research & Development: Fax: +49 2303 8807-562

E-mail address of person responsible sicherheitsdatenblatt@dreve.de

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Repr. 2	H361d
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

**Signal word**

Danger

Hazard statements

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

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Toluene

2.3. Other hazards

No special hazards have to be mentioned.

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.1. Substances**Hazardous ingredients****Toluene**

CAS No.	108-88-3	
EINECS no.	203-625-9	
Registration no.	01-2119471310-51	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 2	H225
	Asp. Tox. 1	H304
	Skin Irrit. 2	H315
	Repr. 2	H361d
	STOT SE 3	H336
	STOT RE 2	H373

Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition!. Use explosion-proof apparatus and fittings. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Toluene

List	TRGS 900			
Value	190	mg/m ³	50	ml/m ³
Maximum limit value: 4(II); Skin resorption / sensibilisation: H Y 06/21; Remarks: DFG				

Toluene

List	EU			
Value	192	mg/m ³	50	ppm(V)
Short term exposure limit	384	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation: H Remarks: Richtlinie 2006/15/EG				

Biological limit values

Toluene

List	BGW (TRGS 903)
Value	600 µg/l
Parameter	Toluene
Testing material	Whole blood (B)
Test date	End of exposure or end of shift (b)

Toluene

List	BGW (TRGS 903)
Value	1,5 mg/l
Parameter	p-cresol
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

Toluene

List	BGW (TRGS 903)
Value	1,5 mg/l
Parameter	p-cresol
Testing material	Urine (U)
Test date	At longterm exposure: after several previous shifts (c)

Toluene

List	BGW (TRGS 903)
Value	0,075 mg/l
Parameter	Toluene
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Toluene

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	384	mg/kg/d

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker

Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	192	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	192	mg/m ³

Predicted No Effect Concentration (PNEC)

Toluene

Type of value	PNEC	
Type	Freshwater	
Concentration	0,68	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	16,39	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2,89	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	13,61	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	16,39	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,68	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,68	mg/l

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

Chemical resistant gloves	
Appropriate Material	neoprene



Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry. Fire-resistant antistatic protective clothing; Protective shoes

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid		
Colour	colourless		
Odour	aromatic		
Melting point			
Value	-95		°C
Freezing point			
Remarks	not determined		
Boiling point or initial boiling point and boiling range			
Value	110	to	111 °C
Flammability			
evaluation	Not applicable		
Upper and lower explosive limits			
Lower explosion limit	1,2		%(V)
Upper explosion limit	7		%(V)
Flash point			
Value	4		°C
Method	closed cup		
Ignition temperature			
Value	535		°C
Decomposition temperature			
Remarks	not determined		
pH value			
Remarks	not determined		
Viscosity			
dynamic			
Value	0,6		mPa.s
Temperature	20		°C
Solubility(ies)			
Remarks	not determined		
Partition coefficient n-octanol/water (log value)			
Remarks	not determined		
Vapour pressure			
Value	29		hPa
Temperature	20		°C
Density and/or relative density			
Value	0,87		g/m ³
Temperature	20		°C



Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Value	0,5		g/l
Temperature	15	°C	

Auto-ignition temperature

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Solvent content

Value 100 %

Solids content

Value 0,0 %

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**



Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

Acute oral toxicity

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

Acute oral toxicity (Components)**Toluene**

Species	rat (male)	
LD50	5580	mg/kg
Method	EEC 84/449, B.1	

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Toluene**

Species	rabbit	
LD50	> 5000	mg/kg

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Toluene**

Species	rat	
LC50	28,1	mg/l
Duration of exposure	4	h
Administration/Form	Vapors	
Method	OECD 403	

Skin corrosion/irritation

evaluation	irritant
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)**Toluene**

Species	rabbit
evaluation	irritant
Method	EEC 84/449, B.4

Serious eye damage/irritation

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

Serious eye damage/irritation (Components)**Toluene**

Species	rabbit
evaluation	slight irritant effect - does not require labelling
Method	OECD 405

Sensitization

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

evaluation	Suspected of damaging the unborn child.
Remarks	The classification criteria are met.

Reproduction toxicity (Components)



Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

Toluene

Route of exposure	inhalative
Species evaluation	rat Suspected of damaging the unborn child.

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

Remarks evaluation	The classification criteria are met. May cause drowsiness or dizziness.
--------------------	----------------------------------------------------------------------------

Repeated exposure

Remarks evaluation	The classification criteria are met. May cause damage to organs through prolonged or repeated exposure
--------------------	-----------------------------------------------------------------------------------------------------------

Specific Target Organ Toxicity (STOT) (Components)**Toluene****Single exposure**

evaluation	May cause drowsiness or dizziness. Route of exposure inhalative
------------	--------------------------------------------------------------------

Toluene**Repeated exposure**

evaluation Species	May cause damage to organs through prolonged or repeated exposure rat
-----------------------	--------------------------------------------------------------------------

Aspiration hazard

The classification criteria are met.
Harmful: may cause lung damage if swallowed.

Aspiration hazard (Components)**Toluene**

Harmful: may cause lung damage if swallowed.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Toluene**

Species LC50	Oncorhynchus kisutch 5,5	mg/l
-----------------	-----------------------------	------

Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

Duration of exposure	96	h	
----------------------	----	---	--

Toluene

Species	Oncorhynchus kisutch		
NOEC	1,39		mg/l
Duration of exposure	40	d	

Daphnia toxicity (Components)**Toluene**

Species	Ceriodaphnia spec		
LC50	3,78		mg/l
Duration of exposure	48	h	

Toluene

Species	Ceriodaphnia spec		
NOEC	0,74		mg/l
Duration of exposure	7	d	

Algae toxicity (Components)**Toluene**

Species	Chlorella vulgaris		
EC50	134		mg/l
Duration of exposure	3	h	

Bacteria toxicity (Components)**Toluene**

EC50	84		mg/l
Duration of exposure	24	h	

12.2. Persistence and degradability**General information**

not determined

Ready degradability (Components)**Toluene****12.3. Bioaccumulative potential****General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Toluene**

log Pow	2,73		
Temperature	20	°C	

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

Results of PBT and vPvB assessment

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product




Must not be disposed together with household garbage.

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	1294	1294	1294
14.2. UN proper shipping name	TOLUENE	TOLUENE	TOLUENE
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
Tunnel restriction code	D/E		



Trade name: Desol

Substance number: 086

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

SECTION 15: Regulatory information

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

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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

Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H336	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin 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.

CLP categories listed in Chapter 2/3

Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.