

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Schedetal Dachbahnenkleber
- **Application of the substance / the preparation** Adhesives
- **Manufacturer/Supplier:**  
Schedetal Folien GmbH  
Im Schedetal 22  
D-34346 Hann. Münden  
Tel: +49 (0) 55 41 / 98 35 0  
Fax: +49 (0) 55 41 / 98 35 10  
info@schedetal.com
- **Further information obtainable from:** Tel : +49 (0) 55 41 / 98 35 0
- **Information in case of emergency:** 0031 (0) 30 274 88 88

## 2 Hazards identification

### · Hazard description:



Xn Harmful  
F Highly flammable

### · 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.

R 11 Highly flammable.

R 36/38 Irritating to eyes and skin.

R 42/43 May cause sensitisation by inhalation and skin contact.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

Contains isocyanates. See information supplied by the manufacturer

### · Classification system:

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

### · GHS label elements



**Danger**

2.6/2 - Highly flammable liquid and vapour.



**Danger**

3.4/1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

3.2/2 - Causes skin irritation.

3.3/2A - Causes serious eye irritation.

3.4/1 - May cause an allergic skin reaction.



**Warning**

3.8/3 - May cause drowsiness or dizziness.

4.1/3 - Harmful to aquatic life with long lasting effects.

### · Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

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Use explosion-proof electrical/ventilating/lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see label).

If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Take off contaminated clothing and wash before reuse.

Wash contaminated clothing before reuse.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.





















Store locked up.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/information on ingredients

**Chemical characterization****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 79-20-9 EINECS: 201-185-2	methyl acetate  Xi,  F; R 11-36-66-67 Danger:  2.6/2 Warning:  3.3/2A, 3.8/3	10-25%
CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues  Xn,  Xi; R 20-36/37/38-42/43 Danger:  3.4.R/1, 3.2/2, 3.3/2A, 3.4.S/1 Warning:  3.1.I/4, 3.8/3	2.5-10%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate  Xi,  F; R 11-36-66-67 Danger:  2.6/2 Warning:  3.3/2A, 3.8/3	2.5-10%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane  Xn,  Xi,  F,  N; R 11-38-50/53-65-67 Danger:  2.6/2;  3.10/1 Warning:  4.1.C/1;  3.2/2, 3.8/3	≤ 2.5%

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

### 4 First-aid measures

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

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

- **After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:**

Water

Water with full jet

- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:**

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- **Measures for cleaning/collecting:**

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

### 7 Handling and storage

- **Handling:**

- **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls/personal protection

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

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· **Ingredients with limit values that require monitoring at the workplace:**

**79-20-9 methyl acetate (10-25%)**

WEL Short-term value: 770 mg/m<sup>3</sup>, 250 ppmLong-term value: 616 mg/m<sup>3</sup>, 200 ppm

**9016-87-9 diphenylmethanediisocyanate, isomers and homologues (2.5-10%)**

WEL Short-term value: 0.07 mg/m<sup>3</sup>Long-term value: 0.02 mg/m<sup>3</sup>

Sen; as -NCO

**141-78-6 ethyl acetate (2.5-10%)**

WEL Short-term value: 400 ppm

Long-term value: 200 ppm

**110-82-7 cyclohexane (≤2.5%)**

WEL Short-term value: 1050 mg/m<sup>3</sup>, 300 ppmLong-term value: 350 mg/m<sup>3</sup>, 100 ppm

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **General Information**

Form:

Fluid

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<b>Colour:</b>	Yellow tint
<b>Odour:</b>	Characteristic
<b>· Change in condition</b> <b>Melting point/Melting range:</b> Undetermined. <b>Boiling point/Boiling range:</b> 57°C	
<b>· Flash point:</b>	-10°C
<b>· Ignition temperature:</b>	455°C
<b>· Self-igniting:</b>	Product is not selfigniting.
<b>· Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>· Explosion limits:</b> <b>Lower:</b> 3.1 Vol % <b>Upper:</b> 16.0 Vol %	
<b>· Vapour pressure at 20°C:</b>	220 hPa
<b>· Density at 20°C:</b>	1.1 g/cm <sup>3</sup>
<b>· Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>· Viscosity:</b> <b>Dynamic at 20°C:</b> 4600 mPas	
<b>· Solvent content:</b> <b>Organic solvents:</b> 18.0 %	
<b>· Solids content:</b>	82.0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

110-82-7 cyclohexane

Oral LD50 12705 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

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· **Sensitisation** May cause sensitisation by inhalation and skin contact.

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## 12 Ecological information

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

## 13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 3 (F1) Flammable liquids.

· **Danger code (Kemler):** 33

· **UN-Number:** 1133

· **Packaging group:** III

· **Hazard label** 3

· **Description of goods:** 1133 ADHESIVES, special provision 640H

· **Maritime transport IMDG:**



· **IMDG Class:** 3

· **UN Number:** 1133

· **Label** 3

· **Packaging group:** III

· **EMS Number:** F-E,S-D

· **Marine pollutant:** No

· **Proper shipping name:** ADHESIVES

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· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1133
- Label: 3
- Packaging group: III
- Proper shipping name: ADHESIVES

· UN "Model Regulation": UN1133, ADHESIVES, 3, III

## 15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



Xn Harmful  
F Highly flammable

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

· Risk phrases:

- 11 Highly flammable.
- 36/38 Irritating to eyes and skin.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 9 Keep container in a well-ventilated place.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

· National regulations:

· Technical instructions (air):

Class	Share in %
I	4.9
NK	18.0

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant R-phrases**

- 11      *Highly flammable.*
- 20      *Harmful by inhalation.*
- 36      *Irritating to eyes.*
- 36/37/38 *Irritating to eyes, respiratory system and skin.*
- 38      *Irritating to skin.*
- 42/43   *May cause sensitisation by inhalation and skin contact.*
- 50/53   *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- 65      *Harmful: may cause lung damage if swallowed.*
- 66      *Repeated exposure may cause skin dryness or cracking.*
- 67      *Vapours may cause drowsiness and dizziness.*

· **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: Reglement internationale 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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **\* Data compared to the previous version altered.**

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