

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VERDÜNNUNG MS/50 C

Revision date: 22.05.2019

Product code: 00178-0004

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

### 1.1. Product identifier

VERDÜNNUNG MS/50 C

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

#### Use of the substance/mixture

Diluent

### 1.3. Details of the supplier of the safety data sheet

Company name: HOLZKIT- SCHMID Michael Bahmer e.K.  
Street: Schmalbachstrasse 23  
Place: D-74626 Bretzfeld-Schwabbach  
Telephone: +49 (0) 79 46 - 94 21 21    Telefax: +49 (0) 79 46 - 94 22 89  
e-mail: Holzkitt.Schmid@t-online.de  
Internet: www.holzkitt.de  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

### 1.4. Emergency telephone number:

+49(0)7946/942121 (available during open hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

### 2.2. Label elements

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

##### Hazard components for labelling

Acetone

**Signal word:** Danger**Pictograms:**

##### Hazard statements

H225    Highly flammable liquid and vapour.  
H319    Causes serious eye irritation.  
H336    May cause drowsiness or dizziness.

##### Precautionary statements

P210    Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233    Keep container tightly closed.  
P261    Avoid breathing vapour.  
P280    Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338                              IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### Special labelling of certain mixtures

EUH066    Repeated exposure may cause skin dryness or cracking.

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### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of organic solvents

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
67-64-1	Acetone			> 95 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.  
If you feel unwell, seek medical advice.  
Remove and wash contaminated clothing before re-use.

#### After inhalation

If patient is not breathing, apply artificial respiration.  
Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
In the event of symptoms refer for medical treatment.

#### After contact with skin

Wash off with soap and plenty of water.  
Consult a doctor if skin irritation persists.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

#### After ingestion

Do not induce vomiting.  
Summon a doctor immediately.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

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#### Unsuitable extinguishing media

Full water jet.

#### **5.2. Special hazards arising from the substance or mixture**

Fire may produce:  
carbon monoxide and carbon dioxide

#### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.  
Protective suit.

#### **Additional information**

Vapours are heavier than air and spread along ground.  
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.  
Cool containers at risk with water spray jet.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator.  
Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.

#### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.  
Clean contaminated surface thoroughly.

#### **6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Take up mechanically and collect in suitable container for disposal.

#### **6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Keep container tightly closed.  
Do not breathe vapours.  
Use only in thoroughly ventilated areas.  
Avoid contact with skin, eyes and clothing.

##### **Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.  
Do not smoke.  
Take precautionary measures against static discharges.  
Use only explosion-proof equipment.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.  
Pay attention to anti-explosion rules.

##### **Hints on joint storage**

Incompatible with oxidizing agents.

##### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

#### **7.3. Specific end use(s)**

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Diluent

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-64-1	Acetone			
Worker DNEL, acute		inhalation	local	2420 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	186 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	1210 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	62 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	200 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	62 mg/kg bw/day

##### PNEC values

CAS No	Substance	Value
67-64-1	Acetone	
Freshwater		10,6 mg/l
Marine water		1,06 mg/l
Freshwater sediment		30,4 mg/kg
Marine sediment		3,04 mg/l
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		29,5 mg/kg

#### 8.2. Exposure controls

##### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

##### Protective and hygiene measures

- Do not inhale vapours.
- Avoid contact with eyes and skin.
- Wash hands before breaks and immediately after handling the product.
- When using do not eat, drink or smoke.
- Take off immediately all contaminated clothing.

##### Eye/face protection

- Tightly fitting goggles (EN 166).
- Eye wash bottle with pure water (EN 15154).

##### Hand protection

- Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0.7 mm, permeation resistance approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.
- This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
- Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

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**Skin protection**

Long sleeved clothing (DIN EN ISO 6530)

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Like ketone

	Test method
pH-Value (at 20 °C):	5,0 - 6,0 395 g/l

**Changes in the physical state**

Melting point:	- 95,4 °C *)
Initial boiling point and boiling range:	56,2 °C *)
Sublimation point:	n.a.
Flash point:	< -20 °C DIN 51755
Sustaining combustion:	Sustaining combustion

**Flammability**

Solid:	n.a.
Gas:	n.a.

**Explosive properties**

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits:	2,6 vol. % *)
Upper explosion limits:	12,8 vol. % *)
Ignition temperature:	465 °C *)

**Auto-ignition temperature**

Solid:	n.a.
Gas:	n.a.

Decomposition temperature:	n.d.
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**Oxidizing properties**

Not oxidising.

Vapour pressure: (at 20 °C)	233 hPa *)
Vapour pressure: (at 50 °C)	815 hPa *)

Density:	0,79 g/cm <sup>3</sup>
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Bulk density:	n.a.
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Water solubility:	Miscible
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**Solubility in other solvents**

n.d.

Partition coefficient:		(n-octanol/water) Log Pow: -0,24
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Viscosity / dynamic: (at 20 °C)	0,32 mPa·s
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Viscosity / kinematic:	n.d.
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Flow time:	n.d.
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Vapour density:	n.d.
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Evaporation rate:	n.d.
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Solvent separation test:	0 %
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Solvent content: 100 %

**9.2. Other information**

Solid content: 0 %

\*) Acetone

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

**10.4. Conditions to avoid**

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

**10.5. Incompatible materials**

oxidizing agents

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects****Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-64-1	Acetone				
	oral	LD50 mg/kg	5800	Rat	
	dermal	LD50 mg/kg	20000	Rabbit	
	inhalation (4 h) vapour	LC50	76 mg/l	Rat	

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

May cause drowsiness or dizziness. (Acetone)

**STOT-repeated exposure**

Repeated exposure may cause skin dryness or cracking.

**Aspiration hazard**

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

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience**

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#### Other observations

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
 Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.  
 Attention. Beware, danger of aspiration.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-64-1	Acetone					
	Acute fish toxicity	LC50 mg/l	5540	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna	
	Algea toxicity	NOEC	530 mg/l	8 d	Microcystis aeruginosa	
	Acute bacteria toxicity	(59 - 67,4 mg/l)		0,5 h	Activated sludge	

### 12.2. Persistence and degradability

Acetone  
 Readily biodegradable.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-64-1	Acetone			
		91%	28	
	Readily biodegradable.			
	Chemical oxygen demand (COD)	2070 mg/g		
	Theoretical oxygen demand (ThOD)	2200 mg/kg		

### 12.3. Bioaccumulative potential

Acetone  
 Low bio-accumulation can be estimated because of low log Po/w. (Log Pow: - 0,24)

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	Acetone	-0,24

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

### 12.6. Other adverse effects

Low hazard to waters.

#### Further information

Do not flush into surface water or sanitary sewer system.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Where possible recycling is preferred to disposal.  
 Can be incinerated, when in compliance with local regulations.

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 1090  
**14.2. UN proper shipping name:** ACETONE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Limited quantity: 1 L / 30 kg  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1090  
**14.2. UN proper shipping name:** ACETONE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Limited quantity: 1 L / 30 kg  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number:** UN 1090  
**14.2. UN proper shipping name:** ACETONE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Marine pollutant: No  
 Limited quantity: 1 L / 30 kg



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Excepted quantity: E2  
EmS: F-E, S-D

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1090  
**14.2. UN proper shipping name:** ACETONE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

### SECTION 15: Regulatory information

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

##### EU regulatory information

2004/42/EC (VOC): 100%  
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Abbreviations and acronyms

Flam. liq. = Flammable liquid  
Eye Irrit. = Eye irritation  
STOT SE = Specific Target Organ Toxicity (Single exposure)

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**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 IMDG = International Maritime Code for Dangerous Goods  
 IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
 MARPOL = International Convention for the Prevention of Pollution from Ships  
 IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
 CAS = Chemical Abstract Service  
 EN = European norm  
 ISO = International Organization for Standardization  
 DIN = Deutsche Industrie Norm  
 PBT = Persistent Bioaccumulative and Toxic  
 vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose  
 LC = Lethal concentration  
 EC = Effect concentration  
 IC = Median immobilisation concentration or median inhibitory concentration

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

**Relevant H and EUH statements (number and full text)**

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*