

# **SAFETY DATA SHEET**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Germany

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

1.1 Product identifier

Product name : ZUSATZMITTEL C

Product code : 2336270

Trade name : ZUSATZMITTEL C

VERDÜNNER/THINNER

 Index number
 : 607-025-00-1

 EC number
 : 204-658-1

 CAS number
 : 123-86-4

 Chemical formula
 : C6-H12-O2

 Date of issue/ Date of revision
 : 7 November 2016

Version : 5.01

### **REACH Registration number**

Registration number	Legal entity
01-2119485493-29	-

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

Identified uses	
Colorant; Printing ink related material; Printing ink.	

Uses advised against	Reason
Not applicable.	

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

Manufacturer/ Distributor : SUN CHEMICAL

NORTON HILL

MIDSOMER NORTON

BATH SOMERSET BA3 4RT

UNITED KINGDOM (44) 1689 894000

COATES SCREEN INKS GMBH

WIEDERHOLDPLATZ 1 D-90451 NURNBERG

GERMANY (49) 911 6422 0

e-mail address of person responsible for this SDS

: regulatory.affairs@sunchemical.com

### 1.4 Emergency telephone number

### **Supplier**

**Telephone number** : 0800-181-7059 (Chemtrec - 24 hours)

Date of issue : 7 November, 2016 Page: 1/12

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

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition**: Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 STOT SE 3, H336

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms :





Signal word : Warning

**Hazard statements** : Flammable liquid and vapor.

May cause drowsiness or dizziness.

**Precautionary statements** 

**Prevention**: Avoid breathing vapor. Wear protective gloves. Wear eye or face protection. Keep

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

smoking.

**Response**: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing. In case of fire: Use water spray, dry chemical powder or carbon

dioxide for extinction.

**Storage**: Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazardous ingredients : pr-butyl acetate

Supplemental label : |

elements

: Repeated exposure may cause skin dryness or cracking.

#### 2.3 Other hazards

Substance meets the : No.

criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

P: Not available. B: Not available. T: No.

Substance meets the criteria for vPvB according to Regulation (EC) No.

1907/2006, Annex XIII

Other hazards which do not result in classification

: None known.

: Not available.

Date of issue : 7 November, 2016 Page: 2/12

2336270

# **SECTION 3: Composition/information on ingredients**

Substance/mixture : Mono-constituent substance

			<u>Classification</u>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
p-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	> 80	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[A]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

### **Type**

- [A] Constituent
- [B] Impurity
- [C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with room

temperature water for at least 15 minutes, keeping eyelids open. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV

light which may increase the sensitivity of the eyes.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners. \\

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Date of issue : 7 November, 2016 Page: 3/12

### **SECTION 4: First aid measures**

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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

Notes to medical doctor

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

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

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous thermal** decomposition products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective** equipment for fire-fighters : Appropriate breathing apparatus may be required.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Date of issue : 7 November, 2016 Page: 4/12

### **SECTION 6: Accidental release measures**

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent.

6.4 Reference to other sections

Avoid using solvents.

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

: Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

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

: Store between the following temperatures: 5 - 35 °C

Store in accordance with local regulations.

### Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations Industrial sector specific solutions

Not available.

· Not available.

# SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Date of issue : 7 November, 2016 Page: 5/12

# **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Exposure limit values
P-butyl acetate	TRGS900 AGW (Germany, 3/2015). TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ ingredient name	Туре	Exposure	Value	Population	Effects
No DELs available.					

### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
No PECs available.				

#### 8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection Skin protection

: Use safety eyewear designed to protect against splash of liquids.

Hand protection

: Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

Body protection

: Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.

Date of issue : 7 November, 2016 Page: 6/12

estimated.

# SECTION 8: Exposure controls/personal protection

**Respiratory protection**: If workers are exposed to concentrations above the exposure limit, they must use

appropriate, certified respirators.

**Environmental exposure** 

controls

: Do not allow to enter drains or watercourses.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state : Liquid. [Watery liquid.]

Color : Clear.

Odor : Characteristic.
Odor threshold : Not applicable.

Yes.

**VOC** : 100%

**pH** : 6.2 [Conc. (% w/w): 0.5%]

Lower explosion limit : Lower: 1.4%

Upper: 7.6%

**Boiling point** : Lowest known value: 126°C (259°F)

**Evaporation rate** : 1 compared with butyl acetate

Upper/lower flammability or

explosive limits

: Lower: 1.4% Upper: 7.6%

Vapor pressure : 1.5 kPa (11.25 mm Hg)

Vapor density : 4 [Air = 1]
Relative density : 0.88
Solubility(ies) : Not tested

Partition coefficient: n-octanol/ : 2.3

**Auto-ignition temperature** 

**Decomposition temperature** 

water

: 415°C (779°F): Not applicable.

Viscosity : Kinematic: 0.0083 cm<sup>2</sup>/s (0.83 cSt)

Explosive properties : Not applicable.

Oxidizing properties : Not applicable.

9.2 Other information

Heat of combustion : -30.54 kJ/g

No additional information.

# **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Date of issue : 7 November, 2016 Page: 7/12

# SECTION 10: Stability and reactivity

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition

products.

**10.5 Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **SECTION 11: Toxicological information**

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<mark>ਯ</mark> -butyl acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
-	LD50 Oral	Rat	10768 ma/ka	_

### **Irritation/Corrosion**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### **Sensitization**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### **Mutagenicity**

Not applicable.

#### Carcinogenicity

Not applicable.

### Reproductive toxicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

### **Teratogenicity**

Not applicable.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	Not applicable.	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue : 7 November, 2016 Page: 8/12

# SECTION 11: Toxicological information

### **Aspiration hazard**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

# **SECTION 12: Ecological information**

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

### 12.1 Toxicity

pr-butyl acetate Acute LC50 32000 μg/l Marine water Crustaceans - Artemia salina - 48 hours

Nauplii

Acute LC50 62000 μg/l Fish - Danio rerio 96 hours

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<mark>p</mark> -butyl acetate	2.3	-	low

### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

PBT : No.

vPvB : Not available.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Date of issue : 7 November, 2016 Page: 9/12

# **SECTION 13: Disposal considerations**

### **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1123	UN1123	UN1123	UN1123
14.2 UN proper shipping name	BUTYL ACETATES	BUTYL ACETATES	BUTYL ACETATES	BUTYL ACETATES
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

Date of issue : 7 November, 2016 Page: 10/12

# SECTION 15: Regulatory information

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

### EU Regulation (EC) No. 1907/2006 (REACH)

### Annex XIV - List of substances subject to authorization

### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions

: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

**National regulations** 

Industrial use : The information contained in this safety data sheet does not constitute the user's

own assessment of workplace risks, as required by other health and safety

legislation. The provisions of the national health and safety at work regulations apply

to the use of this product at work.

Storage code : 3

**Hazardous incident** 

ordinance

: Applicable. Category: 6 Flammable.

Hazard class for water : 1 Appendix No. 4

:

15.2 Chemical Safety

**Assessment** 

Not available.

## **SECTION 16: Other information**

CEPE code : 1

Indicates information that has changed from previously issued version.

**Abbreviations and** 

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226 STOT SE 3, H336	Expert judgment Expert judgment

Full text of abbreviated H

statements

: H226 Flammable liquid and vapor.

H336 May cause drowsiness or dizziness.

Full text of classifications

[CLP/GHS]

: EUH066

Repeated exposure may cause skin dryness or cracking.

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Full text of abbreviated R

phrases

: R10- Flammable.

R66- Repeated exposure may cause skin dryness or cracking.

R67- Vapors may cause drowsiness and dizziness.

Date of issue : 7 November, 2016 Page: 11/12

2336270

## **SECTION 16: Other information**

Full text of classifications : Not applicable.

[DSD/DPD]

**Date of printing** : 24 November 2016

Date of previous issue : 26 July 2016

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

### Annex

Date of issue : 7 November, 2016 Page: 12/12